ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ
(ಕರ್ನಾಟಕ ಸರ್ಕಾರ ಹಾಗೂ ಕೇಂದ್ರ ಸರ್ಕಾರ ಸಹಭಾಗಿತ್ವದ ಉದ್ಯಮ)
ನೊಂದಾಯಿತ ಕಚೇರಿ : ಬಿ.ಎಂ.ಟಿ.ಸಿ. ಕಾಂಪ್ಲೆಕ್ಸ್, 3ನೇ ಮಹಡಿ, ಕೆಂಗಲ್ ಹನುಮಂತಯ್ಯ ರಸ್ತೆ, ಶಾಂತಿನಗರ
ಬೆಂಗಳೂರು – 560 027, ಭಾರತ

Bangalore Metro Rail Corporation Ltd.
(A Joint Venture of Government of Karnataka & Government of India)
Regd. Office : B.M.T.C. Complex, 3rd Floor, K.H. Road, Shanthinagar,
Bangalore - 560 027. INDIA

No. BMRCL/DGM/SEMU/Quarterly Report/ 2023/1276 **Date:** 24.04.2024

To,

The Tree officer and DCF,
BBMP, N R Square,
Bengaluru -560002

Subject: - Forwarding of Quarterly progress report regarding Translocation & Compensatory Plantation of trees by Bangalore Metro Rail Corporation Ltd, Bengaluru.

Ref: -
1. OM No. DCF/BBMP/PR-1790/2020-21 Dated: 01.03.2021
2. OM No. A9/Tree Cutting/BMRCL/CR-154/2021-22 Dated: 02.03.2021
3. OM No. A7/Land/BMRCL. Kadugodi/CR-13/2017-18/3636 Dated: 26.03.2021
4. OM No. DCF/BBMP/PR-1923/2020-21 Dated: 23.03.2021
5. OM No. A9/Tree Cutting/BMRCL/CR-34/2020-21 Dated: 08.04.2021
6. OM No. A9/Tree Cutting/BMRCL/CR-341/2020-21/371 Dated: 18.05.2021
7. OM No. A9/Tree Cutting/BMRCL/CR-195/2020-21/1279 Dated: 26.08.2021
8. OM No. A9/Tree Cutting/BMRCL/CR-195/2020-21/361 Dated: 07.05.2021
9. OM No. A7/Land/BMRCL/CR-39/2018-19 Dated: 08.09.2021
10. OM No. A9/Tree Cutting/BMRCL/CR-480/2020-21 Dated: 26.08.2021
11. OM No. DCF/PR-2196A/2021-22 Dated: 07.03.2022
12. OM No. A9/Tree Cutting/CR-698/2021-22 Dated: 10.06.2022
13. OM No. DCF/PR-1673/2021-22 Dated: 26.11.2021
14. OM No. DCF/PR-1750/2021-22 Dated: 10.12.2021
15. OM No. A9/Tree Cutting/ BMRCL/ CR-543/2020-21/1107 Dated: 10.06.2022
16. OM No. A9/Tree Cutting/BMRCL/CR543/20220-21/2454 dated 09.12.2021
17. OM No. DCF/PR-2213/2021-22 Dated: 10.03.2022
18. OM No. DCF/PR-198/2022-23 Dated :26.07.2022
19. OM No. DCF/PR-983/2022-23 Dated: 29.08.2022
20. OM No. DCF/PR-1125/2022-23 dated: 19.09.2022

As per the above referred OM, BMRCL has to submit the quarterly reports regarding condition of the Translocated trees and Compensatory Plantation for a period of 03 years. Accordingly, Quarterly progress report from July to Sep 2023 showing the condition of the Translocated trees and Compensatory Plantation is attached here with for necessary action.

O/C

(H. S. Ranganathaswamy)
Environmental Officer/SEMU

Enclosure-As above
Copy to:
1.Managing Director, BMRCL

Phone : +91-(0)80-2296 9300 / 22969301, Fax : + 91 (0)80-2296 9222, E-mail : bmrcl@dataone.in Web : www.bmrc.co.in

ಬೆಂಗಳೂರು ಮೆಟ್ರೋ ರೈಲ್ ನಿಗಮ ನಿಯಮಿತ
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As per the above referred OM, BMRCL has to submit the quarterly reports regarding condition of the Translocated trees and Compensatory Plantation for a period of 03 years. Accordingly, Quarterly progress report from July to Sep 2023 showing the condition of the Translocated trees and Compensatory Plantation is attached here with for necessary action.

(H. S. Ranganathaswamy)
Environmental Officer/SEMU

Enclosure-As above
Copy to:
1.Managing Director, BMRCL

Quarterly Report July to September 2023 9th Quarter

Quarterly report on implementation of Official Memorandum dated 01.03.2021 (Reach – 5 RV Road to HSR Layout) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Reach 5 Package 3 of Bangalore Metro Rail Project
Location of the project	: Between R V Road and HSR Layout via Marenahalli Road
OM issued date by the Tree Officer, BBMP	: **01.03.2021**
Court Permission Date	: **25.03.2021**

Details of the OM dtd.: 01.03.2021

Total number of trees removed as per OM	: 13 No. trees
Total Number of Trees Recommended for the Retention on site	: 2 No. trees
Total Number of Trees Recommended for the Translocation on site	: Nill
Number of Trees Recommended for the Felling on site	: 13 No. trees

Details of Translocation:

-Nil-

Details of compensatory Plantation

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: Nursery Men Co-operative Society
Location of Compensatory plantation	: ASC North (Training area), Iblur
Procedure of agency selection	: Work don certificate and through open quotations method
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 130 No. saplings
Number of Saplings planted	: 130 No. saplings
Year and Month of plantation Completed	: 2021 and Oct-Nov
Present servility rate of the plantation	: 130 No. saplings (100%)
Supervision of plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst.

	Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by BBMP	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

A. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 130 no. saplings at ASC North (Training area), Iblur.

A1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From July to Sept 2023, 0% causality was observed in the 130 saplings afforestation pertaining to the OM dtd. 01.03.2021.

A2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to Sep 2023 for the plantations at ASC North (Training area), Iblur.

Soil works: Hoeing and other soil works has been completed in July 2023.

Saucer Bharav: Preparation of Saucer Bharav for the saplingshas been started from August 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to Sep 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from August 2023, still is in progress.

Quarterly Report July to September 2023 9th Quarter

Survival rate: In the quarter July to Sep 2023 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at ASC North (Training area), Iblur.

Numbering and Geo tagging: Coding of Each sapling ASC North (Training area), Iblur, plantation has been started. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 130 saplings at ASC North (Training area), Iblur was in progress.	1. Activities like weeding, Soil works, nutrient supplements have been carried out in the plantation.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Compensatory plantation	130	130	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

(Ranganathaswamy H S)
Environment Officer - SEMU
BMRCL

Compensatory Plantation			
OM dated 03.03.2021 court premission date: 25.03.2021 Location: ASC, North Ibluru - 130 trees			
Sl.No	Name of the Saplings	Number of saplings planted	Remarks
1	ALLA	19	Good Growing
2	BASARI	6	Good Growing
3	BURGA	44	Good Growing
4	CONOCARPUS	3	Good Growing
5	HALASU	1	Good Growing
6	HONGEY	19	Good Growing
7	KADAMBA	1	Good Growing
8	MAHAGONY	10	Good Growing
9	NAGALINGA	7	Good Growing
10	SIMARUBA	13	Good Growing
11	SPATHODEA	3	Good Growing
12	TORIMATTI	4	Good Growing
	Total	130	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.
Shanthinagar, Bengaluru


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Powered by Triple Camera
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Shot on OnePlus
Powered by Triple Camera
11/6/23
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Quarterly Report July to September 2023 — 9th Quarter

Quarterly Report on implementation of Official Memorandum dated 02.03.2021 (R1A - Benaganahalli Lake Bund Area) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Reach 1A Benaganahalli Lake Bund Area of Bangalore Metro Rail Project
Location of the project	: Benaganahalli Lake Bund Area
OM issued date by the Tree Officer, BBMP	: **02.03.2021**
Court Permission Date	: **25.03.2021**

Details of the OM dtd.: 02.03.2021

Total number of trees removed	: 91 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nill
Total Number of Trees Recommended for the Translocation on site	: 52 No. Trees
Number of Trees Recommended for the Felling on site	: 39 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: TMRH Plantations
Location of Receptor site	: 1. Benniganahalli Tank bund area – 36 No. Trees 2. KR Puram Metro station (Along Lowry school compound) – 8 No. Trees 3. Lowry School area – 8 No. Trees
Total number of trees to be translocated as per OM	: **52 No. Trees**
Translocation completed Month and Year	: **July 2021**
Total number of tree translocation completed	: **52 No. Trees**
Total number of tree translocation balance	: **0 No. Trees**
Total number of trees observed with survival Symptoms	: **07 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **45 No. Trees**

Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation by BMRCL	: Environmental officer (SEMU), AM/AE-SEMU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: BBMP Tree officer or officer deputed by tree officer BBMP

Details of Compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Nursery Men Co-operative Society, Bengaluru. 2. Indus Herbs, Bengaluru
Location of Compensatory plantation	: 1. CMP (Training) Iblur, Bengaluru – **360 No. Tree.** 2. CMP (Training) Neelasandra, Bengaluru – **550 No. Tree.**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 910 No. Saplings
Number of Saplings planted	: 910 No. Saplings
Year and Month of plantation Completed	: Oct 2021
Present servility rate of the plantation	: 910 No. saplings (100%)
Supervision of Compensatory plantation by BMRCL	: Environmental officer (SEMU), AM/AE- SEMU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for Compensatory Plantation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by BBMP	:BBMP Tree officer or officer deputed by tree officer BBMP

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged TMRH Plantations for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with TMRH Plantations.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From March 2021 BMRCL has translocated 52 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branch lets, flowers and new leaves were observed in the 07 translocated trees which evident trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 45 translocated trees have not encountered with any survival symptoms.

A.3 Maintenance of Transplanted trees:

A3.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been carried out in July 2023.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been carried July 2023.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

B. Compensatory Plantation:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 910 no. saplings at CMP (Training) Neelasandra, Bengaluru – 550 No. CMP (Training) Iblur, Bengaluru – 360 No. Saplings.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From July to September 2023, 0% causality was observed in the 910 saplings afforestation pertaining to the OM dtd. 02.03.2021. But still any plant attains causality BMRCL is replanting such seedlings.

B1.1Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 for the plantations at CMP (Training) Neelasandra, Bengaluru – 550 No. CMP (Training) Iblur, Bengaluru – 360 No. Saplings.

Soil works: Hoeing and other soil works has been carried out in July 2023.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been carried out in August 2023.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from July 2023, still is in progress.

Survival rate:

In the quarter July to September 2023 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at CMP (Training) Neelasandra, Bengaluru – 550 No. CMP (Training) Iblur, Bengaluru – 360 No. Saplings

Numbering and Geo tagging:

Coding of Each tree sapling in the at CMP (Training) Neelasandra, Bengaluru – 550 No. CMP (Training) Iblur, Bengaluru – 360 No. Saplings. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 52 transplanted trees is in progress. 2. Maintenance of 910 trees saplings is in progress.	1. Both in transplanted and compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	52	52	Nil	Work is completed
2.	Compensatory plantation	910	910	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban

Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Ranganathaswamy H S
Environment officer,
SEMU-BMRCL

Location: Benniganahalli Lake Bund Area				
Total No of transloacation tree 52				
Sl. No	Tree No	Species	Loaction	Condition of tree
1	1	Akash Malige	K R Poram	New sprouts were not obserevd
2	2	Akash Malige	K R Poram	New sprouts were not obserevd
3	3	Neem Tree	Beniganahalli lake	New sprouts were not obserevd
4	5	Hole dasavala	Beniganahalli lake	Fallen not present at site
5	6	ficus bengali	Beniganahalli lake	Healthy
6	7	Hole dasavala	Beniganahalli lake	New sprouts were not obserevd
7	8	Hole dasavala	Beniganahalli lake	New sprouts were not obserevd
8	9	Bagane	Beniganahalli lake	New sprouts were not obserevd
9	12	Bagane	Beniganahalli lake	New sprouts were not obserevd
10	13	Hole dasavala	Beniganahalli lake	New sprouts were not obserevd
11	14	Jamun	Beniganahalli lake	Healthy
12	15	Hole dasavala	Beniganahalli lake	Healthy
13	18	Kari Jaali	Beniganahalli lake	Healthy
14	19	Hole dasavala	Beniganahalli lake	Fallen Not Present at Site
15	21	Rain Tree	Beniganahalli lake	New sprouts were not obserevd
16	22	Akash Malige	Beniganahalli lake	Healthy
17	23	Akash Malige	Beniganahalli lake	New sprouts were not obserevd
18	44 (A)	Akash Malige	Beniganahalli lake	Healthy
	44 (B)		Beniganahalli lake	
19	45 (A)	Hole dasavala	Beniganahalli lake	New sprouts were not obserevd
	45 (B)		Beniganahalli lake	
20	46	Daali chandra	Beniganahalli lake	New sprouts were not obserevd
21	47	Honge	Beniganahalli lake	Fallen not Present at Site
22	48	Avalanda	Beniganahalli lake	New sprouts were not obserevd
23	49	Hole dasavala	Beniganahalli lake	New sprouts were not obserevd
24	58	Akash Malige	Beniganahalli lake	New sprouts were not obserevd
25	61	Rose wood	Lowry School	New sprouts were not obserevd
26	62	Rose wood	Lowry School	New sprouts were not obserevd
27	63	Rose wood	Lowry School	New sprouts were not obserevd

28	64	Rose wood	Lowry School	Fallen Not Present at Site
29	65	Rose wood	Beniganahalli lake	Fallen Not Present at Site
30	66	Rose wood	Lowry School	New sprouts were not obserevd
31	67	Rose wood	Lowry School	New sprouts were not obserevd
32	68	Rose wood	K R Poram	Fallen Not Present at Site
33	69	Rose wood	Lowry School	New sprouts were not obserevd
34	70	Rose wood	Lowry School	New sprouts were not obserevd
35	71	Rose wood	K R Poram	New sprouts were not obserevd
36	72	Rose wood	K R Poram	New sprouts were not obserevd
37	74	Rose wood	Beniganahalli lake	New sprouts were not obserevd
38	75	Rose wood	Beniganahalli lake	Fallen Not present at site
39	76	Rose wood	Beniganahalli lake	Healthy
40	77	Rose wood	K R Poram	New sprouts were not obserevd
41	78	Rose wood	Beniganahalli lake	Fallen Not present at site
42	80	Rose wood	K R Poram	Fallen Not present at site
43	81	Rose wood	K R Poram	New sprouts were not obserevd
44	82	Rose wood	Beniganahalli lake	Dried
45	83	Rose wood	Beniganahalli lake	New sprouts were not obserevd
46	84	Rose wood	Beniganahalli lake	New sprouts were not obserevd
47	85	Rose wood	Beniganahalli lake	New sprouts were not obserevd
48	86	Rose wood	Beniganahalli lake	New sprouts were not obserevd
49	88	Rose wood	Beniganahalli lake	Fallen not present at site
50	89 (A)	Rose wood	Beniganahalli lake	Fallen Not present at site
	89 (B)		Beniganahalli lake	
51	90	Rose wood	Beniganahalli lake	New sprouts were not obserevd
52	91	Rose wood	Beniganahalli lake	Fallen not present at Site


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Latitude: 12.997116
Longitude: 77.668115
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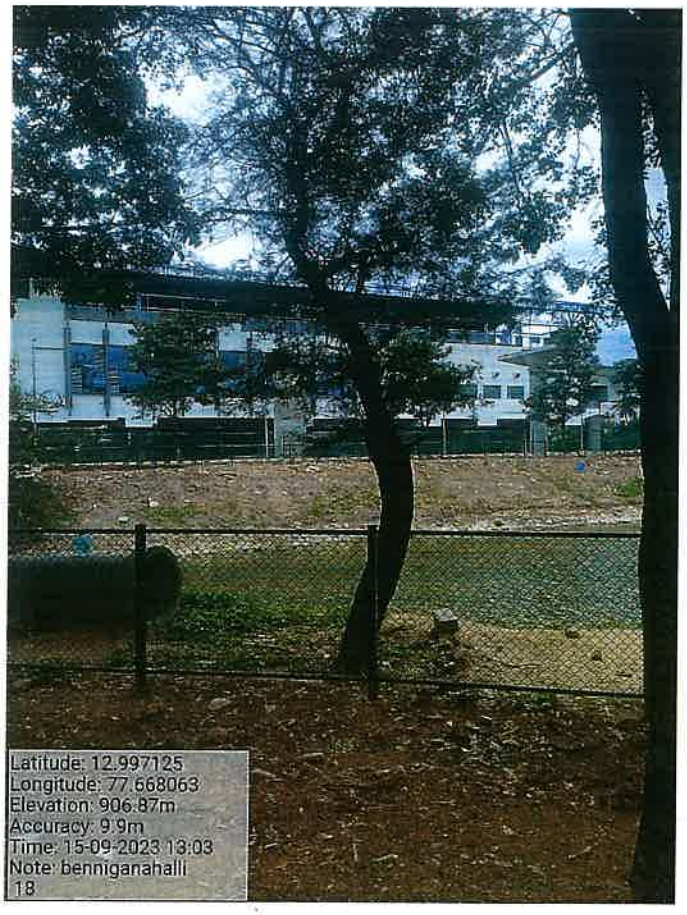
Note: benniganahalli
14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Longitude: 77.668063
Elevation: 906.87m
Accuracy: 9.9m
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18


Latitude: 12.997127
Longitude: 77.667988
Elevation: 905.05m
Accuracy: 9.9m
Time: 15-09-2023 13:03
Note: benniganahalli
ap

Location: CMP (Training area), Ibluru

OM dated: 02.03.2021, Court Permission: 25.03.2021

Sl. No.	Species	Number of Individuals	Remarks
1	Aala	4	Good Growing
2	Alstomia	6	Good Growing
3	Amla	2	Good Growing
4	Arali	15	Good Growing
5	Atti	6	Good Growing
6	Basavanpada	51	Good Growing
7	Bugari	2	Good Growing
8	Conacarpus	13	Good Growing
9	Goni	6	Good Growing
10	Hoarasi	25	Good Growing
11	Hole matti	2	Good Growing
12	Holedasvaalaa	19	Good Growing
13	Honge	27	Good Growing
14	Jacaranda	8	Good Growing
15	Kadubadami	19	Good Growing
16	Mahagony	43	Good Growing
17	Nagaalainga	5	Good Growing
18	Naraalae	19	Good Growing
19	Ranjal	18	Good Growing
20	Spattihodea	18	Good Growing
21	Tare	8	Good Growing
22	Tabubia	20	Good Growing
23	Tecoma	4	Good Growing
24	Tori matti	20	Good Growing
	Total	**360**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru


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Powered by Triple Camera
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Quarterly report on implementation of Official Memorandum dated 26.03.2021 (R1 Ext – Kadugodi Depot) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Reach 1 Ext Kadugodi Depot of Bangalore Metro Rail Project
Location of the project	: Kadugodi, Bengaluru
OM issued date by the Tree Officer, BBMP	: **26.03.2021**
Court Permission Date	: **22.04.2021**

Details of the OM dtd.: 26.03.2021

Total number of trees removed	: 188 No. Trees
Total Number of Trees Recommended for the Retention on site	: 07 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 53 No. Trees
Number of Trees Recommended for the Felling on site	: 135 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Indus Herbs
Location of Receptor site	: 1. Kadugodi Depot area – 53 No. Trees
Total number of trees to be translocated as per OM dtd.	: **53 No. Trees**
Translocation completed Month and Year	: **Aug 2021**
Total number of tree translocation completed	: **53 No. Trees**
Total number of tree translocation balance	: **0 No. Trees**
Total number of trees observed with survival Symptoms	: **06 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **47 No. Trees**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation by BMRCL	: Environmental officer (SEMU), AM/AE-SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation : By BMRCL	ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept. :	Tree Officer or Officer Deputed by Tree Officer Bengaluru urban DCF

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Nursery Men Co-operative Society, Bengaluru. 2. Indus Herbs, Bengaluru. 3. Garden Villa, Bengaluru.
Location of Compensatory plantation (Block 1 MAR, Block 4- sector G&D)	: 1. CMP (Training) Iblur, Bengaluru – **1880 No. Tree**.
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 1880 No. Saplings
Number of Saplings planted	: 1880 No. Saplings
Year and Month of plantation Completed	: Dec 2021
Present servility rate of the plantation	: 1880 No. saplings (100%)
Supervision of Compensatory plantation by BMRCL	: Environmental officer (SEMU), AM/AE- SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree Compensatory plantation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept. :	Tree Officer or Officer Deputed by Tree Officer BBMP Bengaluru

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged TMRH Plantations for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with TMRH Plantations.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From March 2021 BMRCL has translocated 53 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branch lets, flowers and new leaves were observed in the 06 translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 47 translocated trees have not encountered with any survival symptoms.

A3. Maintenance of Transplanted trees:

Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been carried out in July 2023.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been carried July 2023.

Watering: Frequent watering has carried out in quarter July to August 2023 in the plantations.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 1880 no. saplings at CMP (Training) Iblur, Bengaluru – 1880 No. Saplings.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

B1. Maintenance of the plantation

B1.1. Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

B1.2. Causality replacement: From July to September 2023, 0% causality was observed in the 1880 saplings afforestation pertaining to the OM dtd. 26.03.2021. But still any plant attains causality BMRCL is replanting such seedlings.

B1.3. Plantation activities under taken in the present quarter:

Weeding:

Removal of the weeds has been carried out from July to September 2023 for the plantations at CMP (Training) Iblur, Bengaluru – 1880 No. Saplings.

Soil works:

Hoeing and other soil works has been started from August 2023, still in progress.

Saucer Bharav:

Preparation of Saucer Bharav for the saplings has been Started in August 2023, still in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from August 2023, still is in progress.

Survival rate: In the quarter July to September 2023 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at CMP (Training) Iblur, Bengaluru – 1880 No. Saplings

Numbering and Geo tagging:

Coding of Each tree sapling in the at CMP (Training) Iblur, Bengaluru – 1880 No. Saplings. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 53 transplanted trees is in progress. 2. Maintenance of 1800 trees saplings is in progress.	1. Both transplanted and compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Sept 2023	Balance	Remarks
1.	Tree translocation	53	53	Nil	Work is completed
2.	Compensatory plantation	1880	1880	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and

translocation for the July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Ranganathaswamy H S

Environment officer,
SEMU-BMRCL

Location: R1 Ext Kadugodi Depot				
Sl.No	**Tree No**	**Species**	**Location**	**Condition of the Tree**
1	3 (a)	Jungle	Kadugodi Depot	New sprots were not observed
	3 (b)		Kadugodi Depot	
2	21	Neem	Kadugodi Depot	New sprots were not observed
3	23 (a)	Neem	Kadugodi Depot	Fallen Not Present at Site
	23 (b)		Kadugodi Depot	
	23 (c)		Kadugodi Depot	
4	26	Neem	Kadugodi Depot	New sprots were not observed
5	30 (a)	Goni Ficusmys orensis	Kadugodi Depot	Healthy
	30 (b)		Kadugodi Depot	
	30 (c)		Kadugodi Depot	
6	34	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
7	36	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
8	47	Arali nerium oleander	Kadugodi Depot	Healthy
9	48	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
10	49	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
11	50	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
12	58	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
13	67	Hunasemara	Kadugodi Depot	New sprots were not observed
14	73	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
15	89	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
16	91	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
17	92	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
18	102	Hunasemara Tamrindu sindica	Kadugodi Depot	New sprots were not observed
19	136	Hunasemara	Kadugodi Depot	New sprots were not observed
20	148 (a)	Jungle Tree-Bauhiniaracemosa	Kadugodi Depot	New sprots were not observed
	148 (b)		Kadugodi Depot	
	148 (c)		Kadugodi Depot	
	148 (d)		Kadugodi Depot	
21	157	Kakke Cassia fistula	Kadugodi Depot	Fallen Not Present at Site
22	158	Honge Pongamia pinnata	Kadugodi Depot	Fallen not present at site
23	160	Kakke Cassia fistula	Kadugodi Depot	Fallen not present at site
24	161	Kakke Cassia fistula	Kadugodi Depot	New sprots were not observed
25	162	Kakke Cassia fistula	Kadugodi Depot	New sprots were not observed
26	166	Kakke Cassia fistula	Kadugodi Depot	Fallen not Present at Site
27	176	Jungle tree bauhiniaracemosa	Kadugodi Depot	Fallen not Present at Site
28	185	Spathodia Spathodeacampanulata	Kadugodi Depot	Healthy
29	186	Spathodia Spathodeacampanulata	Kadugodi Depot	Healthy
30	187	Raintree Samaneasaman	Kadugodi Depot	New sprots were not observed
31	189	Bilwara Albiziaod oratissima	Kadugodi Depot	Healthy
32	190 (a)	Neem Azadirach taindica	Kadugodi Depot	New sprots were not observed
	190 (b)		Kadugodi Depot	
33	193	Spathodia Spathodeacampanulata	Kadugodi Depot	Healthy
34	195	Eechalu-Phoenizsylvestris	Kadugodi Depot	New sprots were not observed

35	3	Neem	Kadugodi Depot	New sprots were not observed
36	4	Neem	Kadugodi Depot	New sprots were not observed
37	5	Sandal	Kadugodi Depot	Fallen Not Present at Site
38	6	Neem	Kadugodi Depot	New sprots were not observed
39	9	Halasu	Kadugodi Depot	New sprots were not observed
40	11	Sandal	Kadugodi Depot	Fallen Not Present at site
41	12	Neem	Kadugodi Depot	New sprots were not observed
	12 (a)		Kadugodi Depot	
42	15	Bilwara	Kadugodi Depot	New sprots were not observed
43	16	Halasu	Kadugodi Depot	Fallen Not Present at Site
44	19	Muguli Mara	Kadugodi Depot	Fallen Not Present at Site
45	21	Bilwara	Kadugodi Depot	New sprots were not observed
46	22	Sandal	Kadugodi Depot	Fallen Not Present at Site
47	26	Muguli Mara	Kadugodi Depot	New sprots were not observed
48	27	Bevu	Kadugodi Depot	New sprots were not observed
49	32	Sandal	Kadugodi Depot	Fallen not presesnt at site
50	33	Dalichandra	Kadugodi Depot	Partially New sprots were not observed
51	1	Sissoo	Kadugodi Depot	New sprots were not observed
52	2	Sissoo	Kadugodi Depot	New sprots were not observed
53	3	Sandal	Kadugodi Depot	New sprots were not observed


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7


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ote: kadugodi
85


titude: 12.989848
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ote: kadugodi
86

Location: ASC North (Training area), Ibluru

OM dated: 26.03.2021, Court Permission: 22.04.2021

Sl. No.	Species	Number of Individuals	Remarks
1	Aala	139	Good Growing
2	Alastomia	38	Good Growing
3	Akasha mallige	101	Good Growing
4	Arali	14	Good Growing
5	Atti	65	Good Growing
6	Basavanpada	68	Good Growing
7	Basari	5	Good Growing
8	Bugari	21	Good Growing
9	Conocarpus	27	Good Growing
10	Champaka	9	Good Growing
11	Goni	24	Good Growing
12	Hoarasi	47	Good Growing
13	Holedasvaalaa	55	Good Growing
14	Honge	62	Good Growing
15	Hole matti	145	Good Growing
16	Jacaranda	69	Good Growing
17	Kadubadami	82	Good Growing
18	Kakke	10	Good Growing
19	Kadamba	67	Good Growing
20	Kiru nalli	45	Good Growing
21	Mahagony	140	Good Growing
22	Nagaalainga	46	Good Growing
23	Naraalae	159	Good Growing
24	Ranjal	54	Good Growing
25	Simaruba	32	Good Growing
26	Spattihodea	106	Good Growing
27	Taare	62	Good Growing
28	Tabubia rosea	66	Good Growing
29	Tecoma	61	Good Growing
30	Tori matti	61	Good Growing
	Total	**1880**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru


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Quarterly Report July to September 2023 — 8th Quarter

Quarterly report on implementation of Official Memorandum dated 23.03.2021 (R6 UG Between South ramp - Jayanagar Fire Station to North Ramp - Nagawara) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Reach 6 Underground of Bangalore Metro Rail Project
Location of the project	: Between South ramp - Jayanagar Fire Station to North Ramp - Nagawara, Bengaluru.
OM issued date by the Tree Officer, BBMP	: **23.03.2021**
Court Permission Date	: **29.06.2021/29.07.2021**

Details of the OM dtd.: 23.03.2021

Total number of trees removed as per OM	: 207 No. Trees
Total Number of Trees Recommended for the Retention on site	: 05 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 58 No. Trees
Number of Trees Recommended for the Felling on site	: 149 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Asian Landscapes
Location of Receptor site	: 1.Bangalore Co operative Union limited Premises KMF bengaluru = **16 No. Trees** 2. National Dairy Reseach Institute , Bengaluru = **6 No. Trees** 3. Parade ground MG Road ,Bengaluru = **06 No. Trees** 4. Old Military Dairy Farm ,Hebbal = **30 No. Trees**
Total number of trees to be translocated as per OM dtd.	: **58 No. Trees**
Translocation completed Month and Year	: **November 2021**
Total number of tree translocation completed	: **50 No. Trees**
Total number of tree translocation balance	: **08 No. Trees**
Total number of trees observed with survival Symptoms	: **04 No. Trees**

Total number of trees not encounter with any type of survival symptoms	: **46 No. Trees**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Nursery Men Co-operative Society, Bengaluru. 2. Garden Villa, Bengaluru.
Location of Compensatory plantation	: 1. CMP (Training) Iblur, Bengaluru – **1700 No. Tree** 2. ASC North (Training area) – **370 No. Tree**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 2070 No. Saplings
Number of Saplings planted	: 2070 No. Saplings
Year and Month of plantation Completed	: Aug- Dec 2021
Present servility rate of the plantation	: 2070 No. saplings (100%)
Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst.

	Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by Forest Dept	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Asian Landscapes for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Asian Landscapes Plantations.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From June 2021 BMRCL has translocated 50 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 04 translocated trees which evident trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 46 translocated trees have not encountered with any survival symptoms.

A3. Maintenance of Transplanted trees:

A3.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to August 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started from August 2023, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from August 2023, still in progress.

Watering: Frequent watering has carried out in quarter July to August 2023 in the plantations.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 2070 no. saplings at CMP (Training) Iblur, Bengaluru – 1700 No. Saplings and ASC North (Training area) – 370 No. Tree.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

B2. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From July to September 2023, 0% causality was observed in the 1880 saplings afforestation pertaining to the OM dtd. 23.03.2021.

B3. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 for the plantations at CMP (Training) Iblur, Bengaluru – 1700 No. Saplings and ASC North (Training area) – 370 No. Tree.

Soil works: Hoeing and other soil works has been started from August 2023, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been Started in September 2023, still in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from August 2023, still is in progress.

Survival rate: In the quarter April to June 2023 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at CMP (Training) Iblur, Bengaluru – 1700 No. Saplings and ASC North (Training area) – 370 No. Tree.

Numbering and Geo tagging: Coding of Each sapling in the at CMP (Training) Iblur, Bengaluru – 1880 No. Saplings and ASC North (Training area) – 370 No. Tree. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 50 transplanted trees is in progress. 2. Maintenance of 2070 trees saplings is in progress.	1. Both transplanted and compensatory afforestation site activities like weeding, soil works and nutrient supplements were taken up.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till Sept 2023	Balance	Remarks
1.	Tree translocation	58	50	8	Work is in progress
2.	Compensatory plantation	2070	2070	Nil	Work is completed

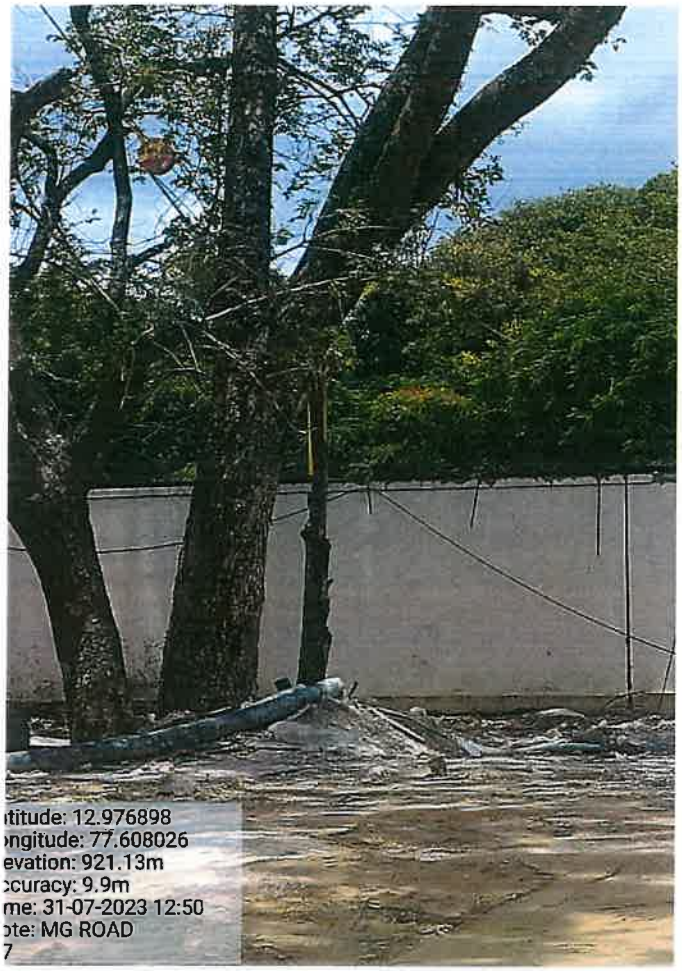
It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Ranganathaswamy H S

Environment officer,
SEMU-BMRCL

Translocation Details Location: R6 UG				
Sl.No	**Tree No**	**Species**	**Location**	**Condition of the trees**
1	1	Jamun	Dairy Circle	Retained at site
2	4	Neem	KMF	Not Present at site
3	5	Neem	KMF	New sprouts were not observed
4	7	Neem	KMF	New sprouts were not observed
5	9	Jamun	KMF	New sprouts were not observed
6	10	Jamun	KMF	New sprouts were not observed
7	11	Mango	KMF	New sprouts were not observed
8	18	Mango	KMF	New sprouts were not observed
9	19	Honge	KMF	Not Present at site
10	21	Neem	KMF	Not Present at site
11	35	Peepal	KMF	New sprouts were not observed
12	36	Peepal	KMF	Healthy
13	37	Jamun	KMF	New sprouts were not observed
14	Un-numbered	Bannimara	Dairy Circle	Retained at site
15	22	Rain Tree	NDRI	New sprouts were not observed
16	23A	Spathodea	NDRI	New sprouts were not observed
	23B	Spathodea	NDRI	
17	24	Banyan tree	NDRI	Healthy
18	25	Peepal	KMF	New sprouts were not observed
19	26	Jamun	NDRI	New sprouts were not observed
20	28	Fig	NDRI	New sprouts were not observed
21	31	Mango tree	NDRI	New sprouts were not observed
22	33	Peepal	KMF	New sprouts were not observed
23	74	Honge	Parade Ground	New sprouts were not observed
24	77	Sampige	Parade Ground	New sprouts were not observed
25	78	Mahagani		Yet to transloacte
26	79	Mahagani	Parade Ground	Healthy
27	80	Mahagani	Parade Ground	Healthy
28	81	Basavanapada	Parade Ground	Fallen not present at site
29	3	Sampige tree	HMDF	New sprouts were not observed
30	4	Sampige	HMDF	New sprouts were not observed

31	9	Jack fruit	HMDF	New sprouts were not observed
32	12	Mango	HMDF	New sprouts were not observed
33	19	Mango	HMDF	New sprouts were not observed
34	27	Ashoka	HMDF	New sprouts were not observed
35	43	Honge		Yet to transloacte
36	46	Arali	HMDF	New sprouts were not observed
37	2	Honge		Yet to transloacte
38	4	Aralimara		Yet to transloacte
39	12	Honge		Yet to transloacte
40	14	Honge		Yet to transloacte
41	22	Mango	HMDF	New sprouts were not observed
42	29	Mango	HMDF	New sprouts were not observed
43	30	Mango	HMDF	New sprouts were not observed
44	33	Mango	HMDF	New sprouts were not observed
45	36	Nerale	HMDF	New sprouts were not observed
46	38	Jack fruit	HMDF	New sprouts were not observed
47	39	Badami	HMDF	New sprouts were not observed
48	43	Honge	HMDF	New sprouts were not observed
49	45	Honge		Yet to transloacte
50	52	Jeevi	HMDF	New sprouts were not observed
51	54	Jeevi	HMDF	New sprouts were not observed
52	57	Arali	HMDF	New sprouts were not observed
53	59	Badami	HMDF	New sprouts were not observed
54	61	Arali		Yet to transloacte
55	64	Jack fruit	HMDF	New sprouts were not observed
56	74	Mango	HMDF	New sprouts were not observed
57	75	Mango	HMDF	New sprouts were not observed
58	79	Melia Dubia	HMDF	New sprouts were not observed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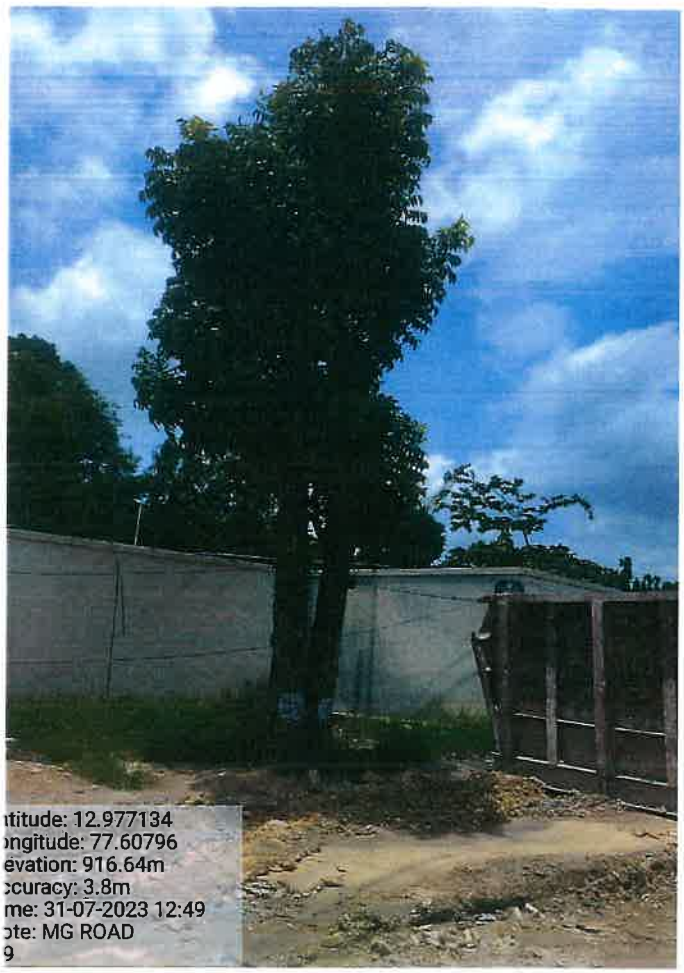
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Compensatory Plantation

OM No. dated 23.03.2021 court premission date: Translocation - 29.06.2021, Cutting - 29.07.2021
Location: ASC, North, Ibluru, Bengaluru - 370 trees

SI No	Name of the Saplings	Number of saplings planted	Remarks
1	Tammarind	15	Good Growing
2	Jack fruit	25	Good Growing
3	Indian Almond	25	Good Growing
4	Indian Puggi	25	Good Growing
5	Basavanapada	15	Good Growing
6	Jack fruit	25	Good Growing
7	Hippe	10	Good Growing
8	Hole dasavala	25	Good Growing
9	Thore Matti	25	Good Growing
10	Hoovarasi	25	Good Growing
13	Mahagani	10	Good Growing
14	Champaka	15	Good Growing
15	Ala	25	Good Growing
16	Arali	15	Good Growing
17	Basari	25	Good Growing
18	Nerale	25	Good Growing
19	Neem	20	Good Growing
24	Tabubia rosea	20	Good Growing
	Total	**370**	

G.A. Manjula
ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

Compensatory Plantation			
OM dated 23.03.2021 court premission date: Translocation - 29.06.2021, Cutting - 29.07.2021 Location: CMP (trainning area), Ibluru - 1700 trees			
SI No	Name of the Saplings	Number of saplings planted	Remarks
1	Ala	50	Good Growing
2	Anali	25	Good Growing
3	Arali	25	Good Growing
4	Basari	50	Good Growing
5	Basavanapada	50	Good Growing
6	Champaka	100	Good Growing
7	Gonni	65	Good Growing
8	Hippe	55	Good Growing
9	Hole dasavala	85	Good
10	Holle Malli	50	Good Growing
11	Honge	105	Good Growing
12	Hoovarasi	100	Good Growing
13	Indian Almond	50	Good Growing
14	Indian Puggi	25	Good Growing
15	Jack fruit	125	Good Growing
16	Kadamba	25	Good Growing
17	Kadunse	25	Good Growing
18	Mahagani	100	Good Growing
19	Mango	50	Good Growing
20	Marry Jackfruit	25	Good Growing
21	Nagalinga pushpa	50	Good Growing
22	Neem	100	Good Growing
23	Nerale	100	Good Growing
24	Spethodia	25	Good Growing
25	Tabubia Rosea	90	Good Growing
26	Tammarind	50	Good Growing
27	Tecoma	50	Good Growing
28	Thore Matti	50	Good Growing
	Total	1700	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru


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Quarterly Report July to September 2023 — 8th Quarter

Quarterly report on implementation of Official Memorandum dated 08.04.2021 (Kothnur Depot Entry Line) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Kothnur Depot Entry Line of Bangalore Metro Rail Project
Location of the project	: Kothnur, Bengaluru
OM issued date by the Tree Officer, BBMP	: **08.04.2021**
Court Permission Date	: **29.06.2021/15.07.2021**

Details of the OM dtd.: 08.04.2021

Total number of trees removed as per OM	: 33 No. Trees
Total Number of Trees Recommended for the Retention on site	: 06 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 18 No. Trees
Number of Trees Recommended for the Felling on site	: 15 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Indus Herbs
Location of Receptor site	: Biotechnolgy Centre ,Dept of Horticulture ,Hulimavu opposite to Meenakshi mall ,Bannerghatta road -**18 No. Trees**
Total number of trees to be translocated as per OM dtd.	: **18 No. Trees**
Translocation completed Month and Year	: **March 2022**
Total number of tree translocation completed	: **15 No. Trees**
Total number of tree translocation balance	: **03 No. Trees**
Total number of trees observed with survival Symptoms	: **02 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **13 No. Trees**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section.

Methodology adopted for the tree translocation: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation by BMRCL	: Environmental officer (SEMU), AM/AE-SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept. :	Tree Officer or Officer Deputed by Tree Officer/DCF.
Supervision by DCF Urban	: Tree Officer or Officer Deputed by Tree Officer/DCF

Details of compensatory Plantation:

Agency entrusted for the raising and	: United ways, Bengaluru
Location of Compensatory plantation	: Nadaprabhu Kempegowda Layout (Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector) – 350 **No. Saplings**
Procedure of agency selection maintenance of the plantation by BMRCL	: Through open quotations method as per the KPTT Act 1999 of emergency section.
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 330 No. Saplings
Number of Saplings planted	: 330 No. Saplings
Year and Month of plantation Completed	: Dec 2021
Present servility rate of the plantation	: 350 No. saplings (100%)
Supervision of Compensatory plantation by BMRCL	: Environmental officer (SEMU), AM/AE- SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for Compensatory plantation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by DCF Urban	: Tree Officer or Officer Deputed by Tree Officer DCF Urban

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Indus Herbs for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Indus Herbs Plantations.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From March 2021 BMRCL has translocated 15 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branch lets, flowers and new leaves were observed in the 02 translocated trees which trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 13 translocated trees have not encountered with any survival symptoms.

A3. Maintenance of Transplanted trees:

A3.1 Time period:

The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started from August 2023, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from August 2023, still in progress.

Watering:

Frequent watering has carried out in quarter July to September 2023 in the plantations.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 350 no. saplings at Nadaprabhu Kempegowda Layout (Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector) – 350 No. Saplings.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

B1. Maintenance of the plantation

B.1 Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

B1.1 Causality replacement: From July to September 2023, 0% causality was observed in the 1880 saplings afforestation pertaining to the OM dtd. 08.04.2021. But still any plant attains causality BMRCL is replanting such seedlings.

B1.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 for the plantations at Nadaprabhu Kempegowda Layout (Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector) – 350 No. Saplings.

Soil works: Hoeing and other soil works has been started from August 2023, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been Started in July 2023, still in progress.

Watering:

Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from August 2023, still is in progress.

Survival rate:

In the quarter July to September 2023 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Nadaprabhu Kempegowda Layout (Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector) – 350 No. Saplings.

Numbering and Geo tagging:

Coding of Each tree sapling in the at Nadaprabhu Kempegowda Layout (Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector) – 350 No. Saplings has been starts. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 15 transplanted trees is in progress. 2. Maintenance of 350 saplings is in progress.	1. Both transplanted and compensatory afforestation site activities like weeding, soil works and nutrient supplements were taken up.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	18	15	3	Work is in progress
2.	Compensatory plantation	330	350	Nil	MaintenanceWork is completed

Quarterly Report July to September 2023 **8th Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Ranganathaswamy H S

Environment officer,
SEMU-BMRCL

Location: Kothnur Depot Entry Line				
Sl.No	**Tree No**	**Species**	**Location**	**Condition of the Tree**
1	8	Jackfruit	Hulimavu Horticulture	yet to tranlocate
2	9	Jackfruit	Hulimavu Horticulture	yet to tranlocate
3	28	Dalchni	Hulimavu Horticulture	New sprots were not observed
4	30	Nelli	Hulimavu Horticulture	Not present at site
5	31	Nelli	Hulimavu Horticulture	New sprots were not observed
6	S1	Sandal	Hulimavu Horticulture	Intimated DCF Urban Office
7	S2	Sandal	Hulimavu Horticulture	Dried
8	S3	Sandal	Hulimavu Horticulture	Dried
9	35	Kunkum	Hulimavu Horticulture	Healthy
10	12	Ficus Sp.	Hulimavu Horticulture	Not present at site
11	13	Ficus Sp.	Hulimavu Horticulture	Healthy
12	14	Nelli	Hulimavu Horticulture	New sprots were not observed
13	17	Jackfruit	Hulimavu Horticulture	New sprots were not observed
14	32	Jackfruit	Hulimavu Horticulture	New sprots were not observed
15	33	Jackfruit	Hulimavu Horticulture	fallen Not present at site
16	15	Nelli	Hulimavu Horticulture	New sprots were not observed
17	11	Spethodia	Hulimavu Horticulture	New sprots were not observed
18	21	Butter fruit	Hulimavu Horticulture	New sprots were not observed


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Location of the plantation: Nadaprabhu Kempegowda Layout

(Block-7-B-Sector, Block-5-H-Sector, Block-5-I-Sector)

OM dated: 08.04.2021, Court Permission: 15.07.2021

Sl.No	Name of the saplings	Number of saplings planted	Remarks
1	Aala	13	Good Growing
2	Arali	6	Good —
3	Atti	8	Good Growing
4	Basari	30	Good Growing
5	Basavanapada	5	Good Growing
6	Billi Borgea	6	Good Growing
7	Champaka	5	Good Growing
8	Hoarasi	14	Good Growing
9	Hole dasavala	7	Good Growing
10	Honge	12	Good Growing
11	Jack Fruit	40	Good Growing
12	Kadamba	2	Good Growing
13	Kadu Badami	8	Good Growing
14	Mahagani	12	Good Growing
15	Nagalinga Pushpa	4	Good Growing
16	Neem	28	Good Growing
17	Nerale	39	Good Growing
18	Tabubia Avalanda	5	Good Growing
19	Tabubia Rosea	32	Good Growing
20	Tamarind	2	Good Growing
21	Tecoma	4	Good Growing
22	Thespesia	3	Good Growing
21	Thormatti	65	Good Growing
	Total	**350**	

G.V. Manjulli

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru


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Quarterly Report July to September 2023 — 8th Quarter

Quarterly report on implementation of Official Memorandum dated 18.05.2021 (Langford Metro Station) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Langford Metro Station of Bangalore Metro Rail Project Construction
Location of the project	: Langford, Bengaluru
OM issued date by the Tree Officer, BBMP	: **18.05.2021**
Court Permission Date	: **29.06.2021/15.07.2021**

Details of the OM dtd. 18.05.2021:

Total number of trees removed	: 123 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: 36 No. Trees
Number of Trees Recommended for the Felling on site	: 87 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Indus Herbs
Location of Receptor site	: Corps of Military Police & School Bengaluru 39 no.**Trees**
Total number of trees to be translocated as per OM	: **39 No. Trees**
Translocation completed Month and Year	: **Oct 2021**
Total number of tree translocation completed	: **39 No. Trees**
Total number of tree translocation balance	: **0 No. Tree**
Total number of trees observed with survival Symptoms	: **01 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **38 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation by BMRCL	: Environmental officer (SEMU), AM/AE-SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: Tree Officer or Officer Deputed by Tree Officer/DCF.

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Indus Herbs 2. EcoGene Concepts LLP 3. Subramanya Constructions
Location of Compensatory plantation and number of saplings.	: NPKL (Block-2, 1 and MAR) - **1795 No. Saplings** Old Military dairy farm Hebbal, Bengaluru – **520 Saplings** Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – **1335 No. Saplings**.
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 3650 No. Tree saplings
Number of Tree saplings planted	: 1230 No. Tree saplings
Year and Month of plantation Completed	: Feb 2022
Present servility rate of the plantation	: 1230 No. tree saplings (100%)
Supervision of Compensatory plantation by BMRCL	: Environmental officer (SEMU), AM/AE- SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree Compensatory plantation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: Tree Officer or Officer Deputed by Tree Officer, Bengaluru Urban DCF.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Indus Herbs for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Indus Herbs.

A2. Methodology

BMRCL has adopted the UAS, GKVK, Bengaluru guidelines for the tree translocation. The details copy of guidelines are given in Annexure I.

A3. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From July 2021 BMRCL has translocated 38 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 01 translocated trees. Remaining 37 translocated trees have not encountered with any survival symptoms.

A4. Maintenance of Transplanted trees:

A4.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to August 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in August 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the tree saplings has been started from August 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to August 2023 in the plantations.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy tree saplings. Hence BMRCL had raised the plantation of 1230 no. tree saplings at NPKL (Block-2, 1 and MAR) - 1795 No. and Old Military dairy farm Hebbal, Bengaluru – 520 Saplings, Hi-Tec Defance and Aero space park Phase-1, (KIADB), Huvinayakanahalli, Bengaluru – 1335 No. Saplings.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From July to September 2023, 0% causality was observed in the 1230 saplings afforestation pertaining to the OM dtd. 08.09.2021. But still any plant attains causality BMRCL is replanting such seedlings.

B3. Plantation activities under taken in the present quarter:

Weeding:

Removal of the weeds has been carried out from July to September 2023 for the plantations at NPKL (Block-2, 1 and MAR) - 1795 No. and Old Military dairy farm Hebbal, Bengaluru –

520 Saplings, Hi-Tec Defance and Aero space park Phase-1, (KIADB), Huvinayakanahalli, Bengaluru – 1335 No. Saplings.

Soil works: Hoeing and other soil works has been started May 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the tree saplings has been started from June 2023, still is in progress.

Watering: Frequent watering has carried out in quarter April to June 2023 in the plantations.

Application of Fertiliser to plants:

50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from May 2023, still is in progress.

Survival rate:

In the quarter April to June 2023, 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at NPKL (Block-2, 1 and MAR) - 1795 No. and Old Military dairy farm Hebbal, Bengaluru – 520 Saplings, Hi-Tec Defance and Aero space park Phase-1, (KIADB), Huvinayakanahalli, Bengaluru – 1335 No. Saplings.

Numbering and Geo tagging:

Coding and Geo tagging of Each tree sapling in the Nadaprabhu Kempegowda Layout (Block-2, Block 1 MAR) – 1795 No. Tree, Old military dairy farm Hebbal, Bengaluru – 520 No. Trees and Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 1335 No. Trees saplings plantation has been completed on Sept 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 39 transplanted trees is in progress. 2. Maintenance of 3650 trees saplings is in progress.	1. Both transplanted and compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	39	39	0	Work is in progress
2.	Compensatory plantation	3150	3650	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Ranganathaswamy H S

Environment officer,
SEMU-BMRCL

Translocated Location: Langford Metro Station				
Sl.No	**Tree No**	**Species**	**Location**	**Condition of the Tree**
1	14	Ornamental	Langford Station	Not present at site
2	15	Mango	Langford Station	Not present at site
3	20	Mango	Langford Station	Not present at site
4	23	Elachi	Langford Station	New sprots were not observed
5	30	Honge	Langford Station	Fallen at site
6	39	Tecoma	Langford Station	Fallen at site
7	43	Mahogani	Langford Station	New sprots were not observed
8	46	Tecoma	Langford Station	New sprots were not observed
9	48	Tecoma	Langford Station	Fallen at Site
10	49	Halasu	Langford Station	Not present at site
11	50	Neem	Langford Station	New sprots were not observed
12	53	Ashoka	Langford Station	Fallen at Site
13	59	Tecoma	Langford Station	New sprots were not observed
14	63	Amla	Langford Station	Not present at site
15	77	Honge	Langford Station	New sprots were not observed
16	84	Ashoka	Langford Station	New sprots were not observed
17	104	Ashoka	Langford Station	Fallen not present at site
18	107	Ashoka	Langford Station	New sprots were not observed
19	112	Jacaranda	Langford Station	New sprots were not observed
20	113	Ashoka	Langford Station	New sprots were not observed
21	115	Ashoka	Langford Station	New sprots were not observed
22	120	Ashoka	Langford Station	New sprots were not observed
23	122	Ashoka	Langford Station	New sprots were not observed
24	128	Ashoka	Langford Station	Not present at site
25	147	Dalichand	Langford Station	New sprots were not observed
26	153	Tabubia Rosia	Langford Station	New sprots were not observed
27	159	Hoovarsi	Langford Station	New sprots were not observed
28	160	Eachalu	Langford Station	Fallen at Site
29	168	Thadubi	Langford Station	Fallen at Site
30	173	Basavanapada	Langford Station	Healthy (Growing from Bottom)
31	180	Hoovarsi	Langford Station	Fallen at Site
32	232	Sandal Wood	Langford Station	Reported to Office
33	255	Mango	Langford Station	Not present at site

34	258	Ashoka	Langford Station	Fallen at Site
35	270	Hippe	Langford Station	Not present at site
36	297	Eachalu	Langford Station	New sprots were not observed
37	298	Honge	Langford Station	New sprots were not observed
38	307	Sissoo	Langford Station	New sprots were not observed
39	316	Sissoo	Langford Station	New sprots were not observed


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Location: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru

OM dated: 18.05.2021, Court Permission: 15.07.2021

Sl.no.	Species	Number of Individuals	Remarks	Girth	Height
1	Aala	19	Good	26 cm	15 ft
2	Antawala	27	Good	22	12
3	Athi	16	Good	18	12
4	Basarisavanpada	81	Good	22	12
5	Basari	73	Good	25	15
6	Champaka	27	Good	21	15
7	Goni	83	Good	21	12
8	Hole dasavala	93	Good	15	10
9	Honge	3	Good	16	12
10	Hole matti	56	Good	20	15
11	Hoarasi	146	Good	17	12
12	Kadu badami	85	Good	19	12
13	Jacaranda	20	Good	20	12
14	Kadamba	91	Good	36	15
15	Mango	58	Good	15	10
16	Mahagony	117	Good	21	15
17	Nagalinga	57	Good	16	12
18	Neem	32	Good	15	10
19	Nerale	62	Good	23	15
20	Spathodea	27	Good	20	15
21	Shivana	4	Good	22	12
22	Tamarind	102	Good	16	10
23	Tabubia rosea	56	Good	23	15
	Total	**1335**			

Note: Girth in Cms
Height in feet

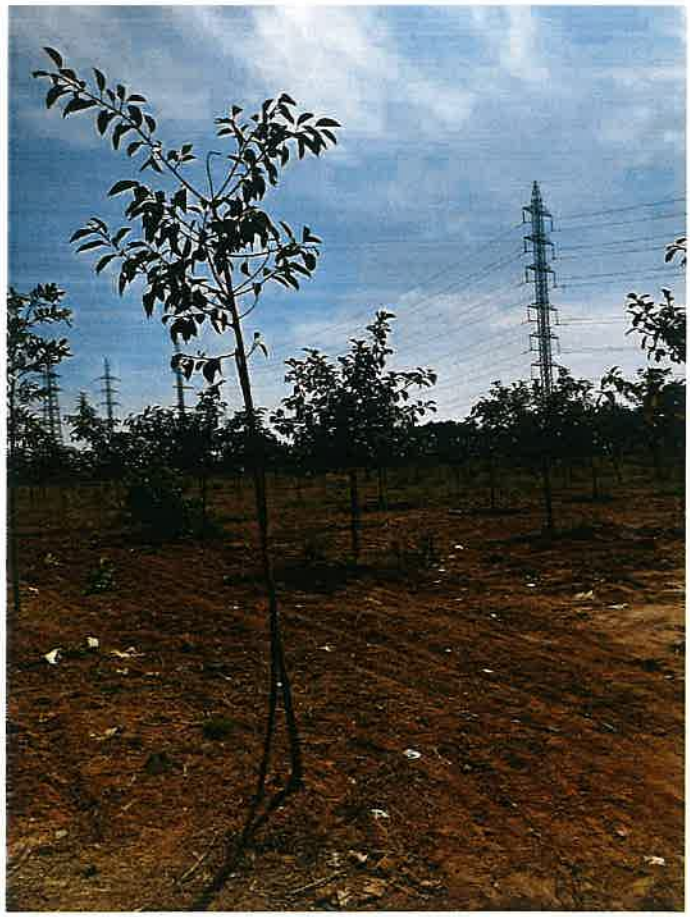
ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.
Shanthinagar, Bengaluru

Location: Old military dairy farm Hebbal

Om dated: 18.05.2021, Court permission: 15.07.2021

Sl. No.	Species Name	Number of individuals	Remarks		
1.	Buruga	70		Good	growing
2.	Spethodia	55		Good	growing
3.	Mahagani	100		Good	growing
4.	Aala	35		Good	growing
5.	Arali	35		Good	growing
6.	Huvarasi	100		Good	growing
7.	Nagalinga	55		Good	growing
8.	Honga	70		Good	growing
	Total	**520**			

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.
Shanthinagar, Bengaluru



Quarterly Report July to September 2023 8th Quarter

Quarterly report on implementation of Official Memorandum dated 26.08.2021 (Kothnuru Depot) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Kothnuru Depot of Bangalore Metro Rail Project Construction
Location of the project	: Kothnuru, Bengaluru
OM issued date by the Tree Officer, Urban	: **26.08.2021**
Court Permission Date	: **20.09.2021**

Details of the OM dtd. 26.08.2021:

Total number of trees removed as per OM	: 96 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: 27 No. Trees
Number of Trees Recommended for the Felling on site	: 69 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Indus Herbs
Location of Receptor site	:Biotechnolgy Centre ,Dept of Horticulture ,Hulimavu opposite to Meenakshi mall ,Bannerghatta road - **27 No. Trees**
Total number of trees to be translocated as per OM dtd.	: **27 No. Trees**
Translocation completed Month and Year	: **July 2022**
Total number of tree translocation completed	: **22 No. Trees**
Total number of tree translocation balance	: **5 No. Trees**
Total number of trees observed with survival Symptoms	: **Nil**
Total number of trees not encounter with any type of survival symptoms	: **22 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999

Methodology adopted for the tree translocation: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept	: Urban Tree Officer or Officer Deputed by Tree Officer Urban.

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. United Ways, Bengaluru. 2. Sevalal Siddeshwara
Location of Compensatory plantation and number of saplings.	: 1. Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – **710 No. Tree.** 2. Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – **250 No. Trees**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 960 No. Saplings
Number of saplings planted	: 960 No. Saplings
Year and Month of plantation Completed	: 2021-2022 and Oct-Feb
Present servility rate of the plantation	: 960 No. saplings (100%)
Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst. Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental

Engineer (SEMU) Section Environmental Engineer (SEMU).

Supervision by Forest Dept : Urban Tree Officer or Officer Deputed by Tree Officer Urban.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Indus Herbs for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Indus Herbs

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From Sept 2021 BMRCL has translocated 22 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were not observed in the translocated trees which evident that trees are not responding to the translocation shock.

A4. Maintenance of Transplanted trees:

A4.1 Time period:

The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to August 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in September 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from August 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 960 no. saplings at Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – 710 No. Trees, Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – 250 No. Trees.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From July to September 2023, 0% causality was observed in the 7890 saplings afforestation pertaining to the OM dtd. 26.08.2021.

B2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 for the plantations at Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – 710 No. Trees, Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – 250 No. Trees.

Soil works: Hoeing and other soil works has been started August 2023, still work is in progress.

Quarterly Report July to September 2023 8th Quarter

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from September 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from August 2023, still is in progress.

Survival rate: In the quarter July to September 2023, 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – 710 No. Trees, Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – 250 No. Trees.

Numbering and Geo tagging: Coding of Each sapling in the Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – 710 No. Trees, Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – 250 No. saplings plantation has been started. Geo tagging of each sapling has been completed on Sept 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. 22 No. trees were translocated. 2. Planting of 960 saplings at Nadaprabhu Kempegowda Layout (Block 6 I E H Sector) – 710 No. Trees, Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar – 250 No. Trees has completed and maintenance work was started.	1. Maintenance of 22 transplanted trees is in progress. 2. Maintenance of 7890 saplings is in progress.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	27	22	5	Transplantation of 5 trees is in progress
2.	Compensatory plantation	960	960	Nil	Maintenance is in progress

Quarterly Report July to September 2023 **8th Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Ranganathaswamy H S

Environment officer,
SEMU-BMRCL

Location: Kothnuru Depot				
Sl.No	**Tree No**	**Species**	**Location**	**Condition of the Tree**
1	249	Nerale	Hulimavu Horticulture	New sprots were not observed
2	251	Honge	Hulimavu Horticulture	New sprots were not observed
3	274	Rain Tree	Hulimavu Horticulture	New sprots were not observed
4	276	Rain Tree	Hulimavu Horticulture	New sprots were not observed
5	277	Honge	Hulimavu Horticulture	Fallen not present at site
6	279	Honge	Hulimavu Horticulture	New sprots were not observed
7	309	Aale	Hulimavu Horticulture	New sprots were not observed
8	4	Honge	Hulimavu Horticulture	New sprots were not observed
9	307	Honge	Hulimavu Horticulture	New sprots were not observed
10	3	Amla	Hulimavu Horticulture	Retained at site
11	5	Amla	Hulimavu Horticulture	Retained at site
12	13	Amla	Hulimavu Horticulture	New sprots were not observed
13	15	Amla	Hulimavu Horticulture	New sprots were not observed
14	16	Amla	Hulimavu Horticulture	Damaged at site
15	34	Amla	Hulimavu Horticulture	New sprots were not observed
16	38	Shivane	Hulimavu Horticulture	New sprots were not observed
17	51	Shivane	Hulimavu Horticulture	New sprots were not observed
18	54	Amla	Hulimavu Horticulture	New sprots were not observed
19	55A	Amla	Hulimavu Horticulture	New sprots were not observed
20	56	Amla	Hulimavu Horticulture	New sprots were not observed
21	57	Amla	Hulimavu Horticulture	New sprots were not observed
22	72	Holematti	Hulimavu Horticulture	Fallen not present at site
23	73	Kumkuma	Hulimavu Horticulture	New sprots were not observed
24	S1	SANDAL	Hulimavu Horticulture	New sprots were not observed
25	S2	SANDAL	Hulimavu Horticulture	New sprots were not observed
26	S3	SANDAL	Hulimavu Horticulture	Dried (Fallen at Site)
27	S4	SANDAL	Hulimavu Horticulture	Dried(Fallen at site)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Location of the plantation: Nadaprabhu Kempegowda Layout

(Block 6 I E H Sector)

OM dated: 26.08.2021, Court Permission: 20.09.2021

Sl.No	Name of the saplings	Number of saplings planted	Remarks
1	Aala	5	Good Growing
2	Arali	8	Good Growing
3	Atti	29	Good Growing
4	Basari	46	Good Growing
5	Basavanapada	10	Good Growing
6	Billi Booraga	23	Good Growing
7	Champaka	20	Good Growing
8	Goni	10	Good Growing
9	Hoarasi	46	Good Growing
10	Hole dasavala	36	Good Growing
11	Honge	33	Good Growing
12	Jack Fruit	13	Good Growing
13	Kadamba	1	Good Growing
14	Kadu Badami	12	Good Growing
15	Kiru Nalli	13	Good Growing
16	mahagani	48	Good Growing
17	Nagalinga Pushpa	17	Good Growing
18	Neem	44	Good Growing
19	Nerale	32	Good Growing
20	Tabubia Avalanda	4	Good Growing
21	Tabubia Rosea	78	Good Growing
22	Tamarind	51	Good Growing
23	Tecoma	11	Good Growing
24	Thare	4	Good Growing
25	Thespesia	6	Good Growing
26	Thormatti	110	Good Growing
	Total	**710**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

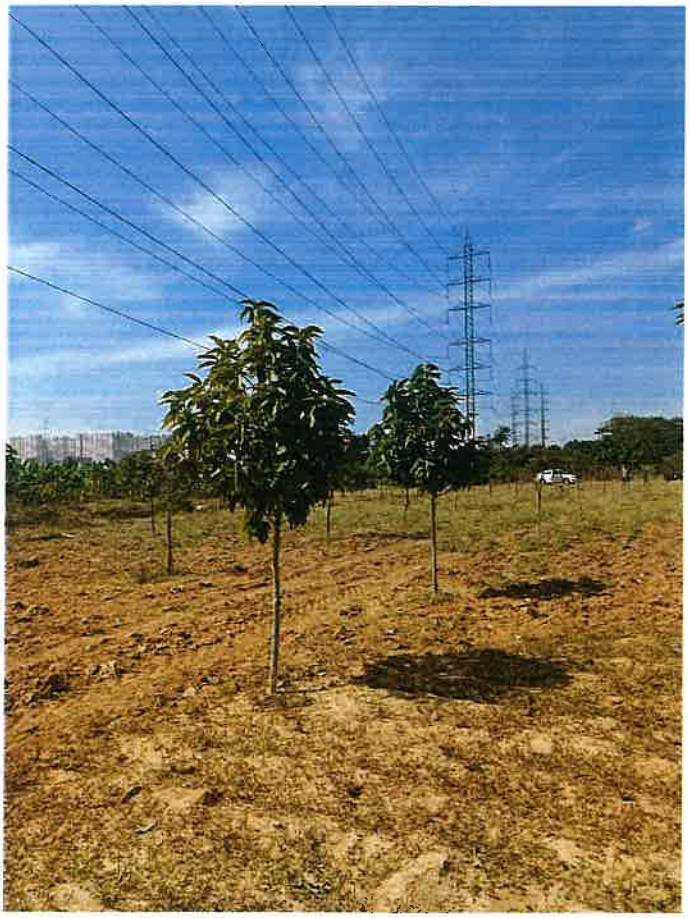
Location: Jayaprakash Narayan youth training centre (Sports Campus), Vidyanagar

OM dated: 26.08.2021, Court Permission: 21.09.2021

SI No	Name of the Saplings	Number of saplings planted	Remarks		
			Condition	Girth	Height
1	Hoovarasi	25	Good	17 cm	12 ft
2	Ala	50	Good	15	15
3	Arali	35	Good	17	15
4	Nerale	40	Good	25	12
5	Neem	15	Good	12	10
6	Honge	45	Good	12	10
7	Bäsäri	20	Good	16	12
8	Tabubia Rosia	20	Good	22	12
Total		**250**			

Note: Girth in cms
Height in feet

ASSISTANT MANAGEMENT OFFICER
Bengaluru, Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru



Quarterly Report July to September 2023 — 7th Quarter

Quarterly report on implementation of Official Memorandum dated 07.05.2021 (Kothnuru Depot) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Kothnuru Depot of Bangalore Metro Rail Project
Location of the project	: Kothnuru, Bengaluru
OM issued date by the Tree Officer, Urban	: **07.05.2021**
Court Permission Date	: **22.04.2021**

Details of the OM dtd.: 07.05.2021

Total number of trees removed as per OM	: 604 No. trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: Nil
Number of Trees Recommended for the Felling on site	: 604 No. trees

Details of Translocation:

-Nil-

Details of compensatory Plantation

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Nursery Men Co-operative Society 2. Ramakrishna Contractor, Bengaluru. 3. United ways, Bengaluru 4. Garden villa 5. Indus Herbs
Location of Compensatory plantation	: 1. Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D) 2. ASC North (Training area and Staff Quarters), Iblur. 3. Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Procedure of agency selection	: Work done certificate and through open quotations method
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 6040 No. saplings
Number of Saplings planted	: 6040 No. saplings
Year and Month of plantation Completed	: 2021-2022 and Oct-Feb
Present servility rate of the plantation	: 6040 No. saplings (100%)
Supervision of Compensatory plantation	: Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept	: Urban Tree Officer or Officer Deputed by Tree Officer Urban.

A. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 6040 no. saplings at Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D), ASC North (Training area and Staff Quarters), Iblur, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

Quarterly Report July to September 2023 7th Quarter

A1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From July to September 2023, 0% causality was observed in the 6040 saplings afforestation pertaining to the OM dtd. 07.05.2021.

A2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 for the plantations at Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D), ASC North (Training area and Staff Quarters), Iblur, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Soil works: Hoeing and other soil works has been started from August 2023, still in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from September 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from August 2023, still is in progress.

Survival rate:

In the quarter July to September 2023 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D), ASC North (Training area and Staff Quarters), Iblur, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Numbering and Geo tagging: Coding of Each sapling Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D), ASC North (Training area and Staff Quarters), Iblur, Hi-Tec Defance and Aero space park

Phase-1 (KIADB), Huvinayakanahalli, Bengaluru has been started. Geo tagging of each sapling has been completed on Dec 2021.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 6040 saplings at Nadaprabhu Kempegowda Layout (Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D), ASC North (Training area and Staff Quarters), Iblur, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru was in progress.	1. Compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
2.	Compensatory plantation	6040	6040	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Ranganathaswamy H S

Environment officer,
SEMU-BMRCL

Location of the plantation: Nadaprabhu Kempegowda Layout

(Block-5-L-Sector, Block-5-I-Sector, Block-6-B-Sector, Block 7 I sector, Block 7 A, C, E, D)

OM dated: 07.05.2021, Court Permission: 22.04.2021

Sl.No	Name of the saplings	Number of saplings planted	Remarks
1	**Aala**	**8**	Good Growing
2	Akash Mallige	60	Good Growing
3	Alamara	20	Good Growing
4	Arali	62	Good Growing
5	Atti	158	Good Growing
6	Basari Mara	192	Good Growing
7	Basavana pada	59	Good Growing
8	Bili Booraga	23	Good Growing
9	Bettada Nellikayi	34	Good Growing
10	Champaka Mara	133	Good Growing
11	Goni	23	Good Growing
12	Cherry	10	Good Growing
13	Hole dasavala	83	Good Growing
14	Honge	145	Good Growing
15	Hoorasi	163	Good Growing
16	Jacaranda	52	Good Growing
17	Jack fruit	68	Good Growing
18	Kadama	81	Good Growing
19	Kadubadami	84	Good Growing
20	Kiru Nalli	93	Good Growing
21	Mahagani	217	Good Growing
22	Mango	25	Good Growing
23	Nagalingpushpha	114	Good Growing
24	Neem	188	Good Growing
25	Nerale	170	Good Growing
26	Peltophorum	30	Good Growing
27	Spathodia	50	Good Growing
28	Tabebuia Rosea	264	Good Growing
29	Tabubia Avalaneda	38	Good Growing
30	Tecoma	10	Good Growing
31	Thespesia	3	Good Growing
32	Tamarind	67	Good Growing
33	Thare	20	Good Growing
34	Thormatti	183	Good Growing
Total		**2,930**	

G.N. Manjunath

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

Location: ASC North (Training area and Staff Quarters), Ibluru

OM dated: 07.05.2021, Court Permission: 22.04.2021

Sl. No.	Species	Number of Individuals	Remarks
1	Akasha Mallige	18	Good Growing
2	Aala	64	Good Growing
3	Alstonia	17	Good Growing
4	Amla	1	Good Growing
5	Arali	115	Good Growing
6	Atti	85	Good Growing
7	Basari	84	Good Growing
8	Basarisavanpada	17	Good Growing
9	Burga	133	Good Growing
10	Conocarpus	45	Good Growing
11	Champaka	58	Good Growing
12	Goni	33	Good Growing
13	Guava	11	Good Growing
14	Hoarasi	123	Good Growing
15	Halasu	113	Good Growing
16	Hole dasavala	23	Good Growing
17	Honge	237	Good Growing
18	Hole Matti	45	Good Growing
19	Hunase	3	Good Growing
20	Hippe	1	Good Growing
21	Jacaranda	117	Good Growing
22	Kadu Badami	218	Good Growing
23	Mahagony	255	Good Growing
24	Nagalinga	159	Good Growing
25	Neem	87	Good Growing
26	Nerale	76	Good Growing
27	Ranjal	167	Good Growing
28	SImaruba	83	Good Growing
29	Spathodea	159	Good Growing
30	Thare	13	Good Growing
31	Tabubia Rosea	252	Good Growing
32	Tecoma	11	Good Growing
33	Torimatti	37	Good Growing
	Total	**2860**	

G.N. Manjula

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.,
Shanthinagar, Bengaluru

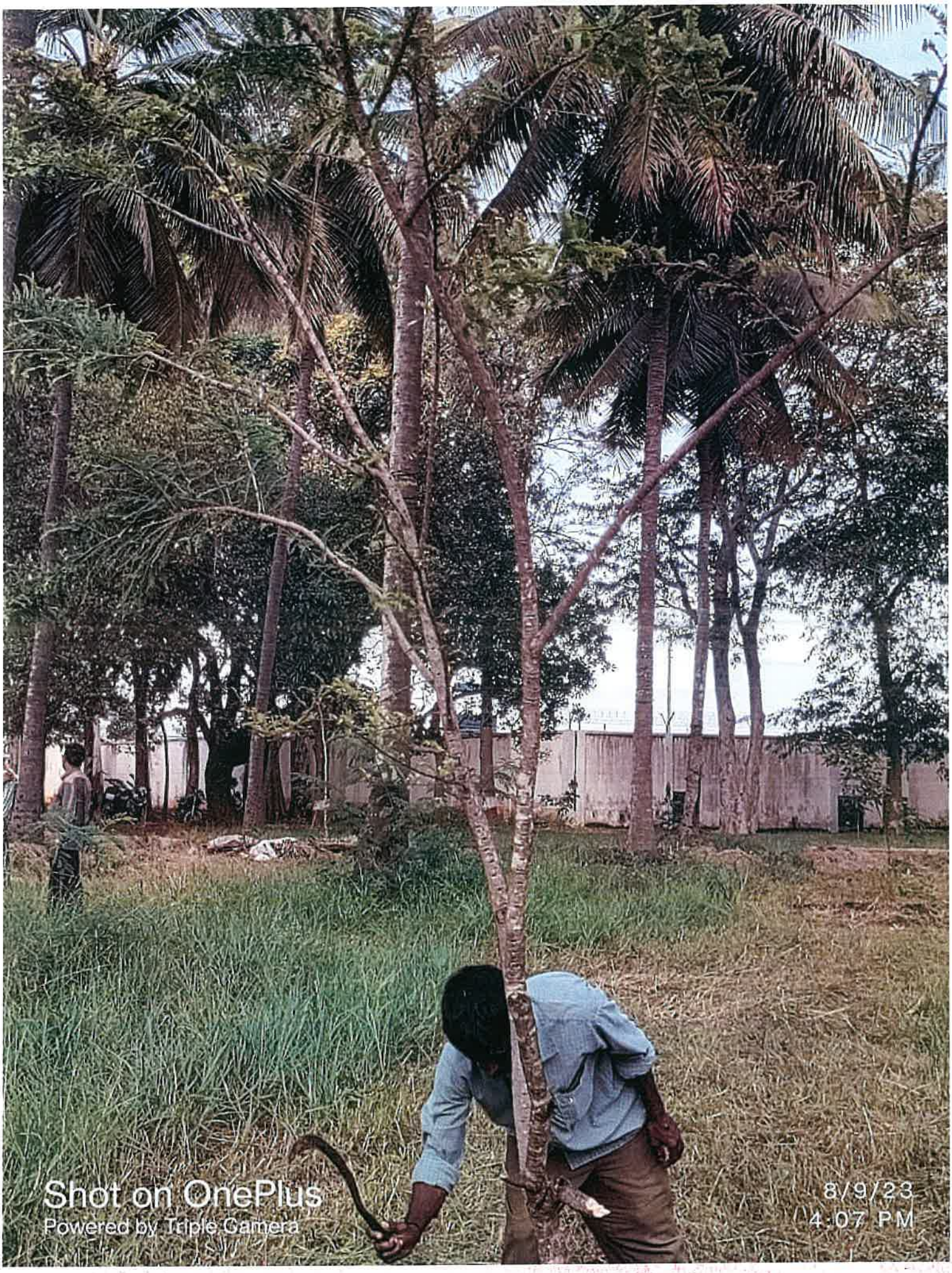
Location: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru

OM dated: 07.05.2021, Court Permission: 22.04.2021

Sl.no.	Species	Number of individuals	Remarks	Girth	Height
1	Aala	26	Good	32 cm	15 ft
2	Basari	23	Good	38	15
3	Champaka	50	Good	19	10
4	Goni	8	Good	25	15
5	Honge	1	Good	12	10
6	Kadamba	2	Good	24	12
7	Mahagony	3	Good	21	10
8	Nerale	23	Good	21	10
9	Spathodea	45	Good	31	15
10	Shivana	9	Good	22	15
11	Tabubia rosea	60	Good	23	15
	Total	**250**			

Note: Girth in Cms
Height in feet

ASSISTANT ENVIRONMENT OFFICE
Bengaluru Metro Rail Corporation Ltd
Shanthinagar, Bengaluru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Quarterly Report July to September 2023 — 8th Quarter

Quarterly report on implementation of Official Memorandum dated 08.09.2021 (UM Kaval) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Anjanapura Depot of Bangalore Metro Rail Project Construction
Location of the project	: U M Kaval, Bengaluru
OM issued date by the Tree Officer, Urban	: **08.09.2021**
Court Permission Date	: **20.09.2021**

Details of the OM dtd. 08.09.2021:

Total number of trees removed as per OM	: 123 No. Trees
Total Number of Trees Recommended for the Retention on site	: 07 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 36 No. Trees
Number of Trees Recommended for the Felling on site	: 87 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Indus Herbs
Location of Receptor site	: Devikarani estate (Kanakapura Road) **36 No. Trees**
Total number of trees to be translocated as per OM dtd.	: **36 No. Trees**
Translocation completed Month and Year	: **January 2022**
Total number of tree translocation completed	: **36 No. Trees**
Total number of tree translocation balance	: **Nil**
Total number of trees observed with survival Symptoms	: **04 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **32 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999

Methodology adopted for the tree translocation: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept	: Urban Tree Officer or Officer Deputed by Tree Officer.

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Savalal sidashwara
Location of Compensatory plantation and number of saplings.	: Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – **1230 No. Tree.**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 1230 No. Saplings
Number of Saplings planted	: 1230 No. Saplings
Year and Month of plantation Completed	: 2021-2022 and Oct-Feb
Present servility rate of the plantation	: 1230 No. saplings (100%)
Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst. Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).

Supervision by Forest Dept : Urban Tree Officer or Officer Deputed by Tree Officer Urban.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Indus Herbs for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Indus Herbs.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From Dec 2021 BMRCL has translocated 36 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 04 translocated trees which evident that trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 34 No. translocated trees have not encountered with any survival symptoms.

A3. Maintenance of Transplanted trees:

A3.1Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in August 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from August 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 1230 no. saplings at Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – 1230 no. Saplings.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From July to September 2023, 0% causality was observed in the 1230 saplings afforestation pertaining to the OM dtd. 08.09.2021.

B2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 for the plantations at Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – 1230 no. Saplings.

Quarterly Report July to September 2023 8th Quarter

Soil works: Hoeing and other soil works has been started August 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from September 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from August 2023, still is in progress.

Survival rate: In the quarter July to September 2023, 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – 1230 no. Saplings.

Numbering and Geo tagging: Coding of Each sapling in the Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – 1230 no. Saplings plantation has been started. Geo tagging of each sapling has been completed on Dec 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 36 transplanted trees is in progress. 2. Maintenance of 1230 trees saplings is in progress.	1. Both transplanted and compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	36	36	Nil	Work is completed
2.	Compensatory plantation	1230	1230	Nil	Work is completed

Quarterly Report July to September 2023 **8th Quarter**

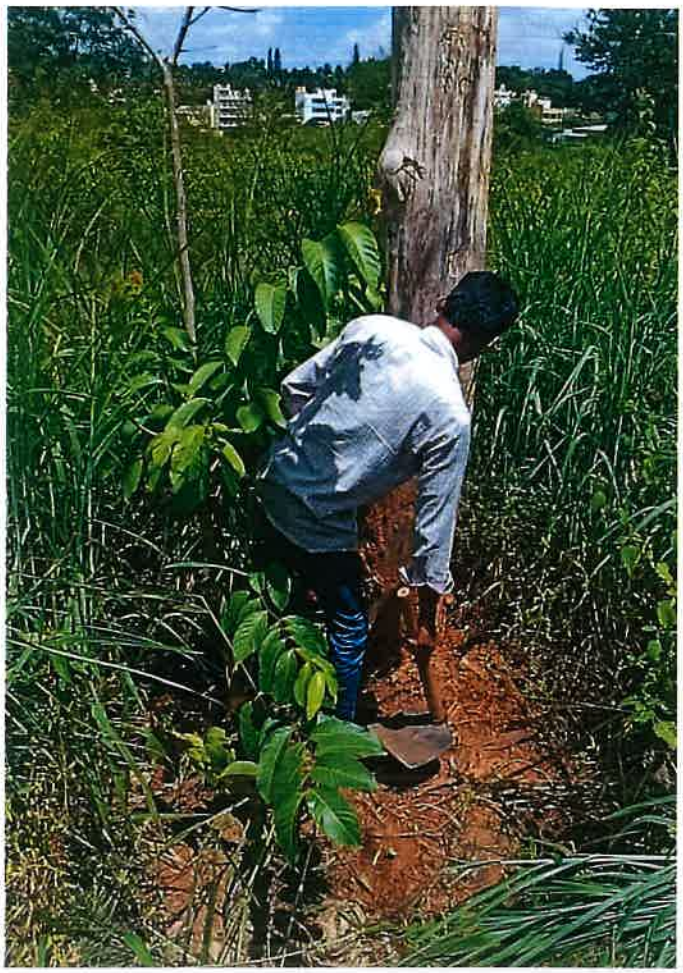
It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

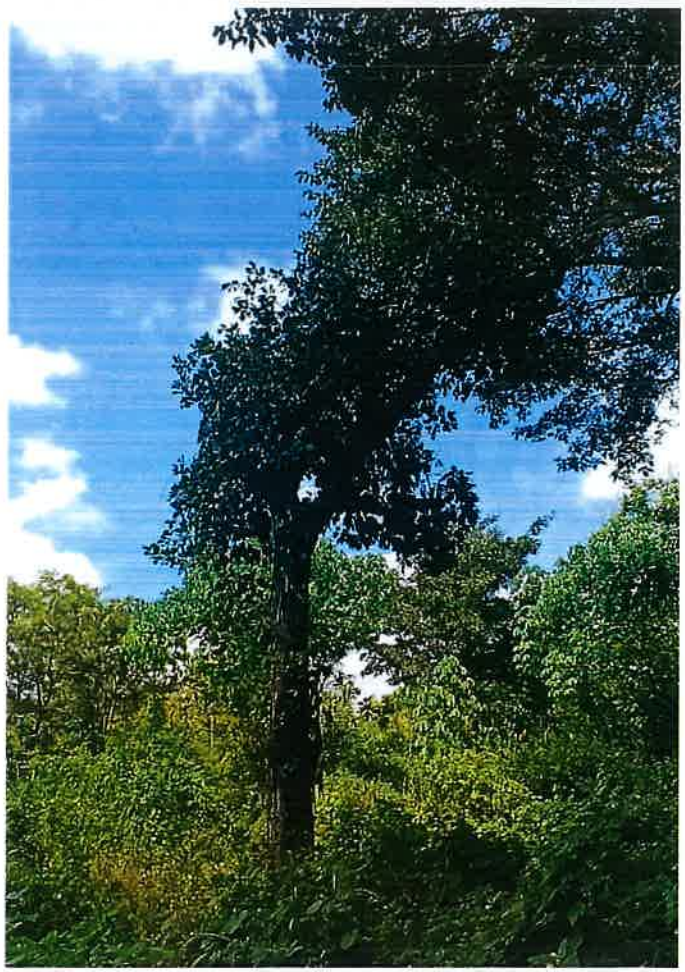
Ranganathaswamy H S

Environment officer,
SEMU-BMRCL

Translocation Details Location: UM Kaval				
Sl.No	**Tree No**	**Species**	**Location**	**Condition of the Tree**
1	18	Echalu	Devika rani estate	New sprouts were not observed
2	31	Echalu	Devika rani estate	New sprouts were not observed
3	38	Mutthuga	Devika rani estate	New sprouts were not observed
4	50	Echalu	Devika rani estate	Healthy
5	66	Thaare	Devika rani estate	New sprouts were not observed
6	67 (a)	Honne	Devika rani estate	New sprouts were not observed
	67 (b)	Honne	Devika rani estate	New sprouts were not observed
7	69	Tapasi	Devika rani estate	New sprouts were not observed
8	71	Achalu	Devika rani estate	New sprouts were not observed
9	83	Baare	Devika rani estate	New sprouts were not observed
10	84	Yalachi	Devika rani estate	New sprouts were not observed
11	85	Kaggali	Devika rani estate	fallen Not present at site
12	86	Kumkuma	Devika rani estate	New sprouts were not observed
13	90	Hebbevu	Devika rani estate	New sprouts were not observed
14	91	Thare	Devika rani estate	Healthy
15	92 (a)	Bage	Devika rani estate	Healthy
	92 (b)	Bage		
16	93	Shivane	Devika rani estate	New sprouts were not observed
17	95	Kamara	Devika rani estate	New sprouts were not observed
18	97	Bilwara	Devika rani estate	fallen Not present at site
19	99	Sandal wood	Devika rani estate	New sprouts were not observed
20	100	Hebbevu	Devika rani estate	New sprouts were not observed
21	103	Bilwara	Devika rani estate	New sprouts were not observed
22	106	Sandal	Devika rani estate	fallen Not present at site
23	107	Hebbevu	Devika rani estate	New sprouts were not observed
24	111	Nerale	Devika rani estate	New sprouts were not observed

25	112	Shivane	Devika rani estate	Healthy
26	113	nerale	Devika rani estate	New sprouts were not observed
27	115	Thare	Devika rani estate	New sprouts were not observed
28	116	Thare	Devika rani estate	New sprouts were not observed
29	121	Kumkuma	Devika rani estate	New sprouts were not observed
30	122	Shivane	Devika rani estate	fallen Not present at site
31	123	Hebbevu	Devika rani estate	New sprouts were not observed
32	126	Hebbevu	Devika rani estate	New sprouts were not observed
33	127	Thorematti	Devika rani estate	New sprouts were not observed
34	128	Kumkuma	Devika rani estate	New sprouts were not observed
35	129	Kumkuma	Devika rani estate	fallen Not present at site
36	130	Nerale	Devika rani estate	New sprouts were not observed





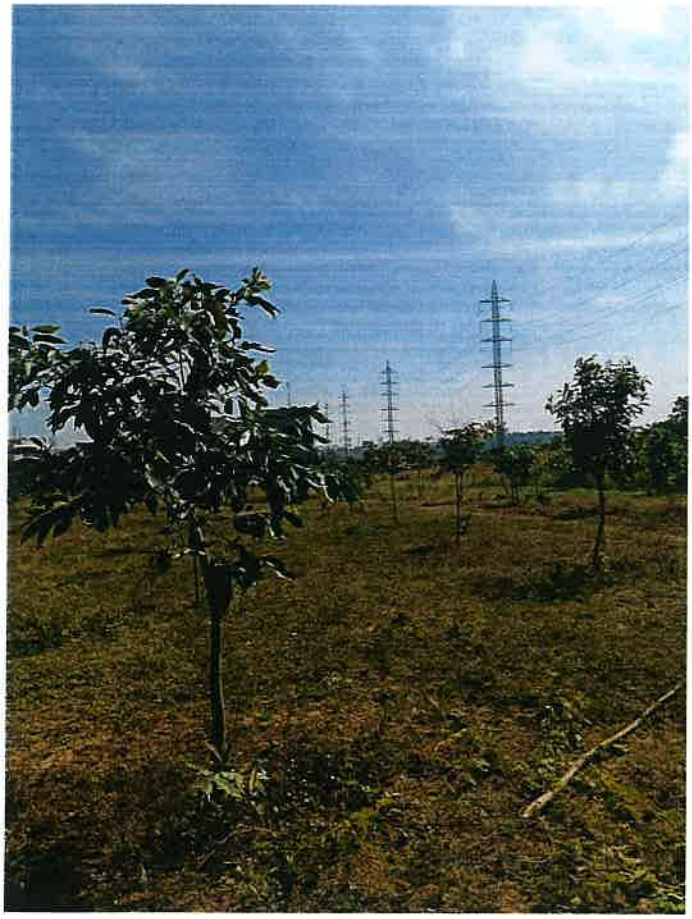
Location: Jayaprakash Narayan youth training centre (High school Campus), Vidyanagar

OM dated: 08.09.2021, Court Permission: 20.09.2021

SI No	Name of the Saplings	Number of saplings planted	Remarks by AEO	Girth	Height
1	Atti	50	Good	22 cm	12 ft
2	Jack fruit	25	Good	18	10
3	guossberry	25	Good	13	10
4	Basavanapada	50	Good	26	10
5	Holedasavala	45	Good	12	10
6	Hole Mathi	140	Good	15	12
7	Hoovarasi	55	Good	17	12
8	Champaka	30	Good	12	12
9	Ala	50	Good	18	15
10	Arali	50	Good	17	15
11	Nerale	40	Good	25	12
12	Neem	40	Good	12	10
13	Honge	40	Good	12	10
14	Basari	145	Good	16	12
15	Tabubia rosia	80	Good	20	15
16	Mohwa	35	Good	17	12
17	Nagalinga Pushpa	50	Good	12	15
18	Bili Boorga	100	Good	25	10
19	Spethodia	75	Good	22	15
20	Kadamba	55	Good	24	12
21	Mahagani	50	Good	17	15
	Total	**1230**			

Note:- Girth in Cms
Height in feet

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd
Shanthinagar, Bengaluru



Quarterly Report July to August 2023 — 9th Quarter

Quarterly report on implementation of Official Memorandum dated 26.08.2021 (R1A - Vijinapura) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Jyothipura Metro station entry exit struvture Reach 1A of Bangalore Metro Rail Project Construction
Location of the project	: Vijinapura, Bengaluru
OM issued date by the Tree Officer, Urban	: **26.08.2021**
Court Permission Date	: **20.09.2021**

Details of the OM dtd. 26.08.2021:

Total number of trees removed as per OM	: 32 No. Trees
Total Number of Trees Recommended for the Retention on site	: 13 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 08 No. Trees
Number of Trees Recommended for the Felling on site	: 24 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: TMRH Plantations
Location of Receptor site	: Along the boundary wall of KR Puram metro station, adjacent to Lowry school compound - **08 No. Trees**
Total number of trees to be translocated as per OM dtd.	: **08 No. Trees**
Translocation completed Month and Year	: **July 2022**
Total number of tree translocation completed	: **08 No. Trees**
Total number of tree translocation balance	: **Nil**
Total number of trees observed with survival Symptoms	: **06 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **02 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999

Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept	: Urban Tree Officer or Officer Deputed by Tree Officer Urban

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Savalal sidashwara
Location of Compensatory plantation and number of saplings.	: Jayaprakash Narayan youth training center (High school Campus), Vidyanagar – **320 No. Tree.**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 320 No. Saplings
Number of Saplings planted	: 320 No. Saplings
Year and Month of plantation Completed	: 2021-2022 and Oct-Feb
Present servility rate of the plantation	: 320 No. saplings (100%)
Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst. Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).

Supervision by Forest Dept : Urban Tree Officer or Officer Deputed by Tree Officer Urban

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged TMRH Plantations for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with TMRH Plantations.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From Dec 2021 BMRCL has translocated 08 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 06 translocated trees which evident that trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 02 No. translocated trees have not encountered with any survival symptoms.

A3. Maintenance of Transplanted trees:

A3.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in August 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from September 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 320 no. saplings at Jayaprakash Narayan youth training center (Sports Campus and High school Campus), Vidyanagar – 320 no. Saplings.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From July to September 2023, 0% causality was observed in the 1230 saplings afforestation pertaining to the OM dtd. 26.08.2021.

B3. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 for the plantations at Jayaprakash Narayan youth training center (Sports Campus and High school Campus), Vidyanagar – 320 no. Saplings.

Quarterly Report July to August 2023 9th Quarter

Soil works: Hoeing and other soil works has been started August 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from September 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from August 2023, still is in progress.

Survival rate: In the quarter July to September 2023, 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Jayaprakash Narayan youth training center (Sports Campus and High school Campus), Vidyanagar – 320 no. Saplings.

Numbering and Geo tagging: Coding of Each sapling in the Jayaprakash Narayan youth training center (Sports Campus and High school Campus), Vidyanagar – 320 no. Saplings. plantation has been started. Geo tagging of each sapling has been completed on June 2023.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 05 transplanted trees is in progress. 2. Maintenance of 320 trees saplings is in progress.	1. Both transplanted and compensatory afforestation sites activities like weeding, soil works and nutrient supplements were taken up.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	08	08	Nil	Maintenance Work is in Progress
2.	Compensatory plantation	320	320	Nil	Maintenance Work is in Progress

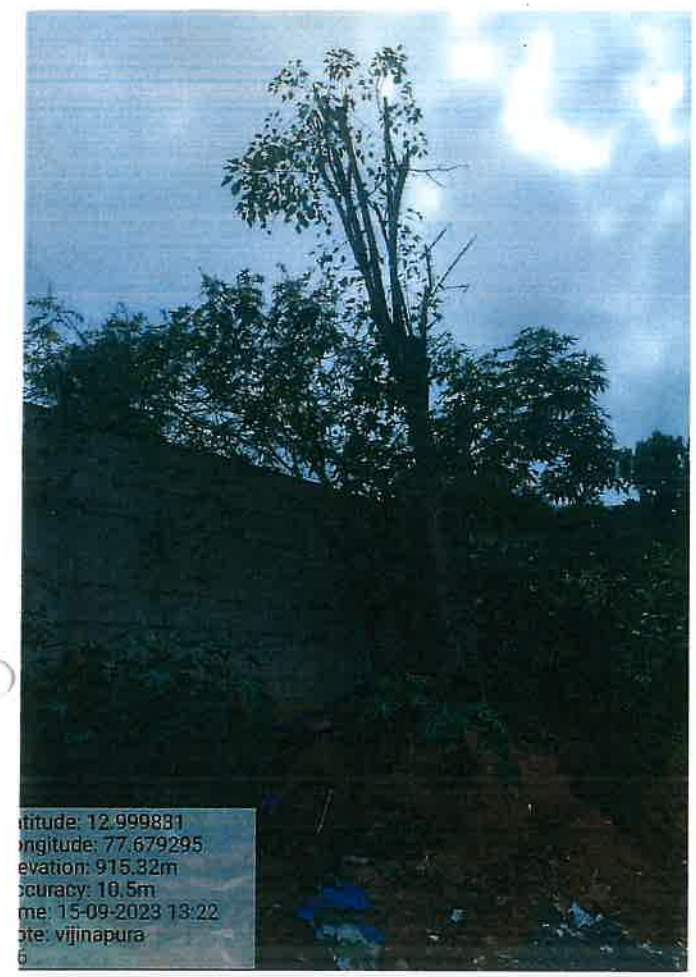
Quarterly Report July to August 2023 **9th Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August and September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

Ranganathaswamy H S

Environment officer,
SEMU-BMRCL

Location: R1A - Vijinapura				
Sl.No	**Tree No**	**Species**	**Location**	**Condition of the Tree**
1	14	Neem	Present at Site	New sprouts were not observed
2	19	Palm	Present at Site	Healthy
3	20	Hatthi	Present at Site	Healthy
4	24	Hole dasavala	K P Puram (Lowry School)	Healthy
5	26	Peepal	K P Puram (Lowry School)	Healthy
6	34A	Honge	K P Puram (Lowry School)	Healthy
	34B		K P Puram (Lowry School)	Healthy
7	36	Teak wood	K P Puram (Lowry School)	Healthy
8	41	Mango	K P Puram (Lowry School)	New sprouts were not observed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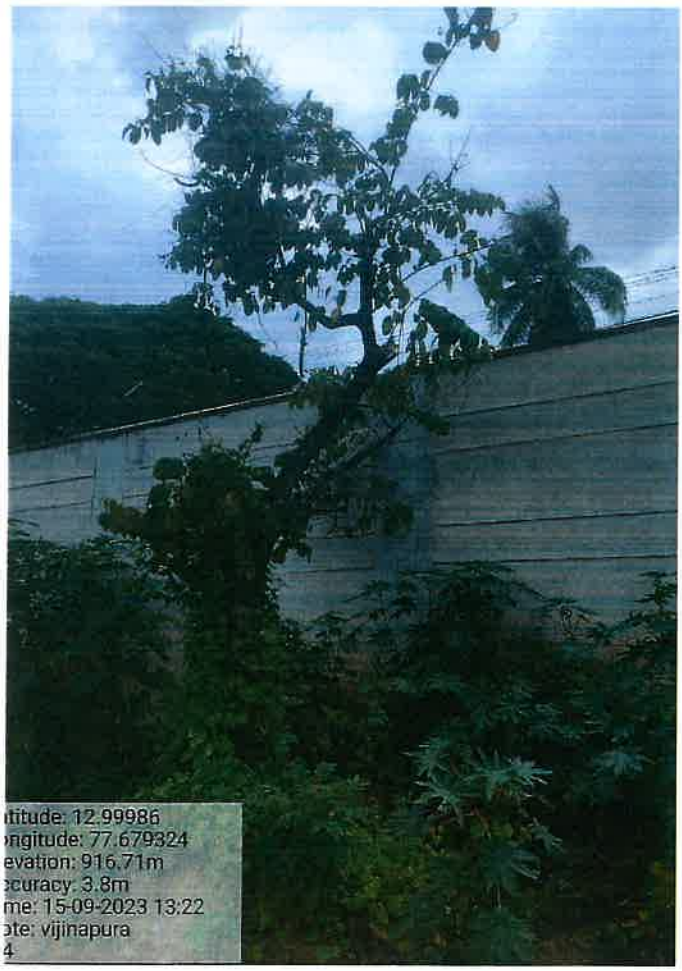
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Location: Jayaprakash Narayan youth training centre (Sports Campus and High school Campus), Vidyanagar.

OM dated: 26.08.2021, Court Permission: 20.09.2021

SI No	Name of the Saplings	Number of saplings planted	Remarks		
1	Tamarind	50	Condition	12	10
2	Jack fruit	10	Good	15	10
3	Mango	50	Good	12	10
4	Indian Fig	40	Good	12	15
5	Hole Dasavala	20	Good	12	15
6	Hole Mathi	20	Good	12	15
7	Hoovarasi	20	Good	12	10
8	Champaka	40	Good	12	10
9	Saraka Indika	50	Good	12	10
10	Ailanthus	20	Good	15	10
	Total	**320**			

Note: Girth in Cms
Height in Feet

AEO.

Quarterly Report July to September 2023 — 5th Quarter

Quarterly report on implementation of Official Memorandum dated 07.03.2022 (Vellara Junction Metro station) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Vellara Junction Metro station of Bangalore Metro Rail Project
Location of the project	: Vellara, Bengaluru
OM issued date by the Tree Officer, Urban	: **07.03.2022**
Court Permission Date	: **20.04.2022**

Details of the OM dtd.: 07.03.2021

Total number of trees removed as per OM	: 08 No. Trees
Total Number of Trees Recommended for the Retention on site	: 2 No. trees
Total Number of Trees Recommended for the Translocation on site	: Nil
Number of Trees Recommended for the Felling on site	: 08 No. Trees

Details of Translocation:

-Nil-

Details of compensatory Plantation

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: Suberamanya constructions
Location of Compensatory plantation and No. of saplings	: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 80 No. Saplings
Procedure of agency selection	: Work don certificate and through open quotations method
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 80 No. saplings
Number of Saplings planted	: 80 No. saplings
Year and Month of plantation Completed	: 2022 and Oct-Feb
Present servility rate of the plantation	: 80 No. saplings (100%)

Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst. Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by Forest Dept	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP.

A. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 80 no. saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 80 No. Saplings.

A1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From July to September 2023, 0% causality was observed in the 80 saplings afforestation pertaining to the OM dtd. 07.03.2022.

A2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023for the plantations at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 80 No. Saplings.

Soil works: Hoeing and other soil works has been completed in August 2023.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from September 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from August 2023, still is in progress.

Survival rate: In the quarter July to September 2023, 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Numbering and Geo tagging: Coding of Each Sapling Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru, plantation has been started. Geo tagging of each sapling has been completed on June 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 80 saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 80 No. Saplings	1. Activities like weeding, Soil works, nutrient supplements have been carried out in the plantation.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
2.	Compensatory plantation	80	80	Nil	Work is completed

Quarterly Report July to September 2023 **5th Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation for the Quarter July, August and September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

H. S. Ranganathaswamy

Environment Officer,
SEMU-BMRCL

Compensatroy Plantation Details			
OM Dated: 07.03.2022 High Court Permission Dated: 20.04.2022 Location: KIADB			
Sl No	**Species Name**	**No of Saplings**	**Remarks**
1	Mahagani	40	Good
2	Goni	40	Good
Total		**80**	Good

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd
Shanthinagar, Bengaluru

Quarterly Report July to September 2023 — 5th Quarter

Quarterly report on implementation of Official Memorandum dated 10.06.2022 (Vellara Junction Metro station) by Bengaluru Metro Rail Corporation Limited

Name of the project	: Vellara Junction Metro station of Bangalore Metro Rail Project
Location of the project	: Vellara, Bengaluru
OM issued date by the Tree Officer, Urban	: **10.06.2022**
Court Permission Date	: **13.07.2022**

Details of the OM dtd.: 10.06.2022

Total number of trees removed as per OM	: 07 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: Nil
Number of Trees Recommended for the Felling on site	: 07 No. Trees

Details of Translocation:

-Nil-

Details of compensatory Plantation

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Suberamanya constructions 2. EcoGene Concept
Location of Compensatory plantation and No. of saplings	: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 70 No. Saplings
Procedure of agency selection	: Work don certificate and through open quotations method
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 70 No. saplings
Number of Saplings planted	: 70 No. saplings
Year and Month of plantation Completed	: 2022 and Oct-Feb
Present servility rate of the plantation	: 70 No. saplings (100%)

Supervision of Compensatory plantation	: General Manager (SEMU), Environmental officer, AM/AE (SEMU) Asst. Environmental Officer, SEMU, Section Environmental Engineer, SEMU.
Officers in-charge for Compensatory plantation	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by Forest Dept	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP.

A. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 80 no. saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 70 No. Saplings.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

A1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement: From July to September 2023, 0% causality was observed in the 80 saplings afforestation pertaining to the OM dtd. 07.03.2022.

A2. Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023for the plantations at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 80 No. Saplings.

Soil works: Hoeing and other soil works has been completed in August 2023.

Quarterly Report July to September 2023 5th Quarter

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from September 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants: 50g of DAP and approximately 2 kg of FYM has been given to each sapling at the root zone from August 2023, still is in progress.

Survival rate: In the quarter July to September 2023, 100 % survival rate has been observed, the sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Numbering and Geo tagging: Coding of Each Sapling Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru, plantation has been started. Geo tagging of each sapling has been completed on June 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 70 saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.	1. Activities like weeding, Soil works, nutrient supplements have been carried out in the plantation.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Compensatory plantation	70	70	Nil	Work is completed

Quarterly Report July to September 2023 **5th Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

H. S. Ranganathaswamy

Environment Officer,
SEMU-BMRCL

Compensatroy Plantation Details			
OM Dated: 10.06.2022 High Court Permission Dated: 12.07.2022			
Sl No	**Species Name**	**No of Saplings**	**Remarks**
1	Kadamba	10	Good
2	Mahogany	15	Good
3	Champaka Mara	10	Good
4	Ala	15	Good
5	Arali Mara	10	Good
6	Nerale Mara	10	Good
Total		**70**	

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.
Shanthinagar, Bengaluru

Quarterly Report July to September 2023 — 6th Quarter

Quarterly report on implementation of Official Memorandum dated 26.11.2021 (Central Silk Board to Kodibeesenahalli 2A Package 1 (ORR)) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2A Package 1 (ORR) of Bangalore Metro Rail Project Construction
Location of the project	: Between Central Silk Board to Kodibeesenahalli
OM issued date by the Tree Officer, BBMP	: **26.11.2021**
Court Permission Date	: **23.12.2021**

Details of the OM dtd. 26.11.2021:

Total number of trees removed as per OM	: 789 No. Trees
Total Number of Trees Recommended for the Retention on site	: 44 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 212 No. Trees
Number of Trees Recommended for the Felling on site	: 577 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Blue Grass Landscaping LTD Under AFCONS Pvt. Ltd.
Location of Receptor site	: CMP Center training area HSR 1st Sector, 27th Cross Iblur, Bengaluru – **212 No. Tree.**
Total number of trees to be translocated as per OM dtd.	: **212 No. Trees**
Translocation completed Month and Year	: **Dec 2022**
Total number of tree translocation completed	: **201 No. Trees**
Total number of tree translocation balance	: **11 No. Trees**
Total number of trees observed with survival Symptoms	: **165 No. Trees**

Total number of trees not encounter with any type of survival symptoms	: **36 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation by BMRCL	: Environmental officer (SEMU), AM/AE-SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by BBMP	: BBMP Tree officer or officer deputed by tree officer BBMP

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: 1. Nursery Men Co-operative Society, Bengaluru. 2. Ramakrishna Contractor, Bengaluru. 3. Ecogene concepts LLP, Bengaluru. 4. Subramanya construction Pvt. Ltd, Bengaluru. 5. Garden Villa, Bengaluru
Location of Compensatory plantation and number of saplings.	: 1. Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – **3400 No. Saplings** 2. Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – **4490 No. saplings**
Procedure of agency selection	: Through open quotations method as per the KPTT Act 1999 of emergency section
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 7890 No. saplings
Number of saplings planted	: 7890 No. saplings
Year and Month of plantation Completed	: June 2022
Present servility rate of the plantation	: 7890 No. saplings (100%)

Supervision of Compensatory Plantation by BMRCL	:Environmental officer (SEMU), AM/AE SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: BBMP Tree officer or officer deputed by tree officer BBMP

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Blue Grass Landscaping LTD Under AFCONS Pvt. Ltd for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Blue Grass Landscaping LTD Under AFCONS Pvt. Ltd.

A3. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From April 2022 BMRCL has translocated 201 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 165 translocated trees which evident trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 36 no translocated trees have not encountered with any survival symptoms hence they were kept in the observation.

A4. Maintenance of Transplanted trees:

A4.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in July 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from July 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

B. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 7890 no. saplings at Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – 3400 No. Trees Saplings, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 4490 No. Saplings.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

B1. Maintenance of the plantation

Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

Causality replacement:

From From July to September 2023, 0% causality was observed in the 7890 saplings afforestation pertaining to the OM dtd. 26.11.2021. But still any plant attains causality BMRCL is replanting such seedlings.

B2. Plantation activities under taken in the present quarter:

Weeding:

Removal of the weeds has been carried out from July to September 2023 for the plantations at Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – 3400 No. Trees Saplings, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 4490 No. Saplings.

Soil works:

Hoeing and other soil works has been started July 2023.still work is in progress.

Saucer Bharav:

Preparation of Saucer Bharav for the saplings has been started from August 2023, still is in progress.

Watering:

Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants:

50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from July 2023, still is in progress.

Survival rate:

In the quarter July to September 2023, 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – 3400 No. Saplings, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 4490 No. saplings.

Numbering and Geo tagging:

Coding of Each tree sapling in the Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4-sector G&D) – 3400 No. Trees Saplings, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 4490 No. plantation has been started. Geo tagging of each sapling has been completed on Sep 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. 201 No. trees were translocated till June 2023. 2. Planting of 7890 saplings at Nadaprabhu Kempegowda Layout (Block 1 MAR, Block 4- sector G&D) – 3400 No. Trees Saplings, Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 4490 No. has completed.	1. Maintenance of 201 transplanted trees is in progress. 2. Maintenance of 7890 saplings is in progress.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	212	201	11	Transplantation of 11 trees is in progress
2.	Compensatory plantation	7890	7890	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban

Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

H S Ranganathaswamy

Environment Officer,
SEMU-BMRCL

ORR-PHASE - 2A (PACKAGE-1) FROM CENTRAL SILK BOARD TO KODIBEESANAHALLI STATION UP TO PIER No. - 335			
Sl No	**Tree No.**	**Species Name**	**Condition of the trees**
1	1	Mahagani	Healthy
2	2	Mahagani	Healthy
3	4	Mahagani	Healthy
4	7	Baage	New sprouts were not observed
5	9	Benjomia	Healthy
	9 (a)		
6	25	Spathodia	Healthy
7	26	Honge	Healthy
	26 (a)		
8	34	Kadu badami	Healthy
9	35	Kadu badami	Healthy
10	42	Alada mara	Healthy
	42 (a)		
11	50	Goni mara	Healthy
12	52	Tabubia	Healthy
13	61	Bhadrakshi	Healthy
14	65	Tabubia	Retained
	65 (a)		
15	66	Tabubia	Retained
16	73	Tabubia	Retained
17	79	Honge	Retained
18	93	Honge	Retained
	93 (a)		
19	107	Honge	Retained
20	108	Tabubia	Retained
21	109	Tabubia	Retained
22	110	Honge	Retained
23	111	Honge	Retained
24	113	Mahagani	Retained
25	128	Akash mallige	Healthy
26	131	Akash mallige	New sprouts were not observed
27	144	Akash mallige	New sprouts were not observed

Sl No	Tree No.	Species Name	Condition of the trees
28	159	Akash mallige	Healthy
29	165	Akash mallige	New sprouts were not observed
30	172	Akash mallige	Healthy
31	186	Akash mallige	Healthy
32	187	Akash mallige	Healthy
33	189	Akash mallige	Healthy
34	194	Akash mallige	Healthy
35	197 197 (a)	Akash mallige	Healthy
36	198	Akash mallige	Healthy
37	212	Akash mallige	Healthy
38	213	Akash mallige	Healthy
39	218	Atthi mara	Healthy
40	219	Hoole matti	Healthy
41	220	Mahagani	New sprouts were not observed
42	223	Mahagani	Healthy
43	224	Mahagani	New sprouts were not observed
44	225	Hoole matti	Healthy
45	226	Mahagani	New sprouts were not observed
46	227	Mahagani	Healthy
47	231	Mahagani	Healthy
48	233	Shivane	Healthy
49	234	Mahagani	New sprouts were not observed
50	236	Ranjal	Healthy
51	238	Mahagani	New sprouts were not observed
52	239	Mahagani	New sprouts were not observed
53	243	Tabubia	Healthy
54	247	Akash mallige	Healthy
55	248	Akash mallige	New sprouts were not observed
56	249	Tabubia	Healthy
57	262	Tabubia	Healthy
58	264	Mahagani	Healthy
59	266	Mahagani	Healthy
60	293	Tabubia	Healthy

Sl No	Tree No.	Species Name	Condition of the trees
61	294	Tabubia	Healthy
62	324	Honge	Healthy
63	325	Kadu badami	Healthy
64	326	Kadu badami	New sprouts were not observed
65	327	Kadu badami	Dired
66	329	Mahagani	New sprouts were not observed
67	332	Mahagani	Healthy
68	333	Mahagani	New sprouts were not observed
69	336	Akash mallige	Healthy
70	337	Akash mallige	Healthy
71	340	Atthi mara	New sprouts were not observed
	340 (a)		
72	341	Honge	New sprouts were not observed
	341 (a)		
73	342	Atthi mara	Healthy
	342 (a)		
	342 (b)		
	342 (c)		
74	344	Dali chandra	Healthy
75	356	Alstromea macrophyllaia	Healthy
76	362	Dali chandra	Healthy
77	363	Alstromea macrophyllaia	Healthy
78	364	Dali chandra	Healthy
79	365	Alstromea macrophyllaia	Healthy
	365 (a)		
80	366	Dali chandra	Healthy
81	367	Alstromea macrophyllaia	Healthy
82	369	Alstromea macrophyllaia	New sprouts were not observed
83	371	Dali chandra	Healthy
84	373	Dali chandra	Healthy

Sl No	Tree No.	Species Name	Condition of the trees
85	382	Tabubia	Healthy
86	383	Tabubia	Healthy
87	384	Bhadrakshi	Healthy
88	387	Mahagani	New sprouts were not observed
89	388	Tabubia	Healthy
90	389	Tabubia	Healthy
91	390	Mahagani	Healthy
92	393	Mahagani	New sprouts were not observed
93	394	Tabubia	Healthy
94	395	Mahagani	Healthy
95	399	Mahagani	Healthy
96	403	Dali chandra	Healthy
	403 (a)		
97	404	Dali chandra	Healthy
98	406	Dali chandra	Healthy
99	407	Spathodia	New sprouts were not observed
100	420	Dali chandra	Healthy
	420 (a)		
	420 (b)		
	420 (c)		
101	421	Mahagani	New sprouts were not observed
	421 (a)		
102	424	Tabubia	Healthy
	424 (a)		
103	426	Tabubia	Healthy
104	427	Tabubia	Healthy
105	428	Mahagani	Healthy
106	429	Mahagani	Healthy
	429 (a)		
	429 (b)		
107	430	Mahagani	Healthy
108	432	Tabubia	Healthy
109	440	Dali chandra	Healthy
110	445	Tabubia	Healthy

Sl No	Tree No.	Species Name	Condition of the trees
111	446	Tabubia	Healthy
112	456	Tabubia	Healthy
	456 (a)		
113	459	Ealchi	Healthy
114	461	Dali chandra	New sprouts were not observed
	461 (a)		
115	470	Dali chandra	Healthy
	470 (a)		
	470 (b)		
116	472	Rain tree	Healthy
117	475	Tabubia	Healthy
118	480	Honge	Healthy
119	482	Honge	Healthy
	482 (a)		
120	483	Honge	Healthy
121	485	Dali chandra	Healthy
122	488	Honge	Healthy
123	490	Honge	New sprouts were not observed
124	491	Honge	Healthy
	491 (a)		
125	492	Honge	Healthy
	492 (a)		
	492 (b)		
	492 (c)		
126	493	Honge	Healthy
127	494	Honge	Healthy
	494 (a)		
128	495	Honge	Healthy
129	496	Honge	Healthy
130	498	Dali chandra	Healthy
131	499	Dali chandra	New sprouts were not observed
132	501	Dali chandra	Healthy
133	504	Mahagani	Healthy
134	507	Mahagani	Healthy

Sl No	Tree No.	Species Name	Condition of the trees
135	509	Honge	New sprouts were not observed
136	513	Dali chandra	Healthy
137	520	Kadu hunase	Healthy
138	523	Honge	Healthy
	523 (a)		Healthy
139	619	Kadu hunase	Healthy
140	621		Healthy
	621 (a)		Healthy
141	671	Honge	New sprouts were not observed
142	685	Kadu hunase	Healthy
143	698	Honge	New sprouts were not observed
	698 (a)		
144	702	Honge	Healthy
145	708	Rain tree	New sprouts were not observed
146	709	Honge	Healthy
147	715	Honge	New sprouts were not observed
148	716	Honge	Healthy
149	718	Honge	Healthy
150	719	Honge	Healthy
151	722	Honge	Healthy
152	723	Honge	Healthy
153	724	Tabubia	Healthy
154	725	Tabubia	Healthy
	725 (a)		
155	726	Honge	Healthy
156	727	Honge	Healthy
157	728	Tabubia	Healthy
	728 (a)		
158	729	Honge	Healthy
159	731	Rain tree	New sprouts were not observed
160	732	Honge	Healthy
161	733	Honge	Healthy
162	734	Honge	Healthy
163	735	Honge	New sprouts were not observed

Sl No	Tree No.	Species Name	Condition of the trees
164	736	Honge	Healthy
165	737	Subabul	Healthy
166	743	Tabubia	Healthy
167	748	Tabubia	Healthy
168	752	Honge	Healthy
169	766	Arali	Healthy
	766 (a)		Healthy
	766 (b)		Healthy
170	770	Honge	Healthy
171	771	Honge	Healthy
172	774	Honge	Healthy
	774 (a)		
173	775	Honge	Healthy
	775 (a)		
174	776	Honge	Healthy
	776 (a)		
175	778	Honge	Healthy
176	779	Honge	Healthy
177	780	Honge	Healthy
	780 (a)		
178	781	Honge	Healthy
179	782	Honge	Healthy
	782 (a)		
180	783	Honge	Healthy
	783 (a)		
181	784	Honge	Healthy
	784 (a)		
182	785	Honge	Healthy
183	786	Honge	Healthy
184	787	Honge	Healthy
185	788	Honge	Healthy
186	789	Honge	Healthy
187	790	Honge	Healthy
188	791	Honge	Healthy
	791 (a)		

Sl No	Tree No.	Species Name	Condition of the trees
189	792	Honge	New sprouts were not observed
190	793	Honge	Healthy
191	794	Honge	Healthy
192	795	Honge	New sprouts were not observed
	795 (a)		
193	796	Honge	Healthy
194	798	Honge	Healthy
	798 (a)		
195	799	Neelgiri	New sprouts were not observed
196	801	Honge	Healthy
	801 (a)		
	801 (b)		
197	802	Hippe	Healthy
198	809	Rain tree	New sprouts were not observed
	809 (a)		
	809 (b)		
199	812	Rain tree	Healthy
200	813	Rain tree	Healthy
	813 (a)		
201	815	Honge	Healthy
	815 (a)		
202	816	Honge	Healthy
203	819	Rain tree	Healthy
204	820	Rain tree	Healthy
205	821	Rain tree	Healthy
206	822	Honge	Healthy
	822 (a)		
207	823	Honge	Healthy
208	825	Honge	Healthy
209	826	Honge	Healthy
210	827	Honge	Healthy
	827 (a)		
211	832	Tabubia	Healthy
212	833	Tabubia	Healthy


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Compensatory Plantation at Nadaprabhu kempegowda layout, Bengaluru

OM dated 26.11.2022 court premission date: 23.12.2021
Location: Nadaprabhu kempegowda layout, Bengaluru- 3400 trees

Sl.No	Name of the Saplings	Number of saplings planted	Remarks
1	Akasha mallige	80	Good Growing
2	Ala	85	Good Growing
3	Amla	100	Good Growing
4	Arali	80	Good Growing
5	Basari	50	Good Growing
6	Basavanapada	160	Good Growing
7	Beete	70	Good Growing
8	Bevu	40	Good Growing
9	Champaka	80	Good Growing
10	Halasu	150	Good Growing
11	Hole dasaavala	40	Good Growing
12	Honge	170	Good Growing
13	Honne	70	Good Growing
14	Hunase	190	Good Growing
15	Huvarasi	175	Good Growing
16	Kadamba	30	Good Growing
17	Kadu badami	260	Good Growing
18	Mahagani	300	Good Growing
19	Mango	80	Good Growing
20	Nagalinga Pushpa	125	Good Growing
21	Neem	30	Good Growing
22	Nelli	100	Good Growing
23	Nerale	200	Good Growing
24	Sampige	70	Good Growing
25	Spathodia	130	Good Growing
26	Tabubia Avalanda	70	Good Growing
27	Tabubia Rosia	245	Good Growing
28	Thore mathi	220	Good Growing
	Total	**3400**	

G.N. Manjunath
ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.
Shanthinagar, Bengaluru

Compensatory Plantation at Hi tech defence and aerospace park, Hoovinayakana Halli, KIADB

OM dated 26.11.2022 court premission date: 23.12.2021
Location: Hi tech defence and aerospace park, Hoovinayakana Halli, KIADB - 4490 trees

Sl.No	Name of the Saplings	Number of saplings planted	Condition	Remarks Girth	Height
1	Amla	100	Good	15 cmt	10 ft
2	Tamarind	198	Good	12	10
3	Jackfruit	275	Good	22	15
	Monkey jack fruit	200	Good	12	15
4	Indian almond	289	Good	19	10
5	Basavanapada	117	Good	22	15
6	Gooseberry Tree	86	Good	15	10
7	Tabeuia rosea	358	Good	15	12
8	Akasha Mallige	128	Good	33	15
9	Hole Dasvala	181	Good	26	10
10	Hole mathi	287	Good	23	10
11	hoorasi	150	Good	28	12
12	Nagalinga Pushpa	245	Good	15	12
13	Spathodea	165	Good	15	12
14	Kadambamara	151	Good	27	12
15	Mahogany	316	Good	15	15
16	Champaka Mara	176	Good	14	10
17	Ala	50	Good	30	15
18	Aralimara	100	Good	25	15
19	Neralemara	318	Good	26	10
20	Neem	110	Good	12	10
21	Mango	80	Good	17	10
22	Honge	50	Good	15	10
23	Thare	40	Good	12	10
24	Antuvala	40	Good	12	15
25	Atti	80	Good	28	15
27	Goni mara	15	Good	26	15
28	Basari	100	Good	28	12
29	Shivane mara	45	Good	32	15
30	Tebebuia Avalaneda	40	Good	12	15
	Total	**4490**			

Note: Girth in cm
Hieght in feet

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd
Shanthinagar, Bengaluru

Quarterly report on implementation of Official Memorandum dated 10.12.2021 (Kodibeesenahalli to K R Puram Package 2 (ORR)) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2A Package 2 (ORR) of Bangalore Metro Rail Project Construction
Location of the project	: Between Kodibeesenahalli to K R Puram
OM issued date by the Tree Officer, BBMP	: **10.12.2021**
Court Permission Date	: **09.02.2022**

Details of the OM dtd. 26.11.2021:

Total number of trees removed	: 1026 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: 484 No. Trees
Number of Trees Recommended for the Felling on site	: 542 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Blue Grass Landscapers Under SNC Pvt Ltd
Location of Receptor site	: 1. Bagamane Tech park=138/138 2. Bhoganhalli lake area =43/47 3. Thubarahalli lake area =132/140 4. Nallurahalli lake area =158/159
Total number of trees to be translocated as per OM dtd.	: **484 No. Trees**
Translocation completed Month and Year	: **Sept 2022**
Total number of tree translocation completed	: **471 No. Trees**
Total number of tree translocation balance	: **13 No. Trees**
Total number of trees observed with survival Symptoms	: **377 No. Trees**

Total number of trees not encounter with any type of survival symptoms	: **94 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation by BMRCL	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by Forest Dept.	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

Details of compensatory Plantation:

BMRCL has issued notification inviting tenders for raising and maintenance of saplings for 3 years on 24.02.2023. Notice to proceed issued to competent agency on 30.05.2023. Plantation work along with Geo-tagging is in progress.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation: Bangalore Metro Rail Corporation Limited Engaged Blue Grass Landscapers Under SNC Pvt Ltd for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Blue Grass Landscapers Under SNC Pvt Ltd

A2. Survival Rate of transplanted trees as per the official memorandum: The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting.

Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From Feb 2022 BMRCL has translocated 471 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 377 translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 94 no. translocated trees have not encountered with any survival symptoms hence they were kept in the observation.

A4. Maintenance of Transplanted trees:

A4.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding:

Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in July 2023, still work is in progress.

Saucer Bharav:

Preparation of Saucer Bharav for the saplings has been started from July 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. 471 No. trees were translocated from till June 2023.	1. Maintenance of 471 transplanted trees is in progress. 2. Compensatory afforestation NTP has been issued on 20.02.2023 and plantation raising work is in progress.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	484	471	13	Transplantation of 18 trees is in progress
2.	Compensatory plantation	1026	0	1026	Compensatory Plantation raising work is in progress.

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

H S Ranganathaswamy

Environment Officer,
SEMU-BMRCL

Bagamane Tech Park				
Si No	**Tree No**	**Species**	**Condition of Tree**	**Location**
1	690	Tabubia Rosea	Healthy	Rio
2	700	Tabubia Rosea	Healthy	Rio
3	702	Tabubia Rosea	Healthy	Rio
4	829	Tabubia Rosea	Healthy	Rio
5	743	Tabubia Rosea	Healthy	Rio
6	691	Tabubia Rosea	Healthy	Rio
7	758	Tabubia Rosea	Healthy	Rio
8	684	Tabubia Rosea	Healthy	Rio
9	699	Tabubia Rosea	Healthy	Rio
10	689	Tabubia Rosea	Healthy	Rio
11	764	Tabubia Rosea	Healthy	Rio
12	682	Tabubia Rosea	Healthy	Rio
13	442	Tabubia Rosea	Healthy	Rio
14	512	Tabubia Rosea	Healthy	Rio
15	519	Tabubia Rosea	Healthy	Rio
16	926	Tabubia Rosea	Healthy	Rio
17	958	Tabubia Rosea	Healthy	Rio
18	941	Tabubia Rosea	Healthy	Rio
19	944	Tabubia Rosea	Healthy	Rio
20	953	Tabubia Rosea	Healthy	Rio
21	945	Tabubia Rosea	Healthy	Rio
22	946	Tabubia Rosea	Healthy	Rio
23	948	Tabubia Rosea	Healthy	Rio
24	950	Tabubia Rosea	New Sprouts were not observed	Rio
25	935	Tabubia Rosea	Healthy	Rio
26	968	Tabubia Rosea	New Sprouts were not observed	Rio
27	954	Tabubia Rosea	Healthy	Rio
28	961	Tabubia Rosea	Healthy	Rio

29	964	Tabubia Rosea	Healthy	Rio
30	962	Tabubia Rosea	Healthy	Rio
31	957	Tabubia Rosea	Healthy	Rio
32	916	Tabubia Rosea	Healthy	Rio
33	967	Tabubia Rosea	Healthy	Rio
34	966	Tabubia Rosea	New Sprouts were not observed	Rio
35	921	Tabubia Rosea	Healthy	Rio
36	919	Tabubia Rosea	Healthy	Rio
37	912	Tabubia Rosea	Healthy	Rio
38	979	Tabubia Rosea	Healthy	Rio
39	978	Tabubia Rosea	Healthy	Rio
40	900	Tabubia Rosea	Healthy	Rio
41	824	Tabubia Rosea	Healthy	Rio
42	825	Tabubia Rosea	Healthy	Rio
43	820	Tabubia Rosea	Healthy	Rio
44	910	Tabubia Rosea	Healthy	Rio
45	923	Tabubia Rosea	Healthy	Rio
46	883	Tabubia Rosea	Healthy	Rio
47	902	Tabubia Rosea	Healthy	Rio
48	915	Tabubia Rosea	Healthy	Rio
49	925	Tabubia Rosea	Healthy	Rio
50	971	Tabubia Rosea	Healthy	Rio
51	906	Tabubia Rosea	New Sprouts were not observed	Rio
52	965	Tabubia Rosea	Healthy	Rio
53	922	Tabubia Rosea	Healthy	Rio
54	717	Tabubia Rosea	Healthy	Gold Stone
55	732	Tabubia Rosea	Healthy	Gold Stone
56	720	Tabubia Rosea	Healthy	Gold Stone
57	724	Tabubia Rosea	Healthy	Gold Stone
58	432	Tabubia Rosea	Healthy	Gold Stone

59	722	Tabubia Rosea	Healthy	Gold Stone
60	710	Tabubia Rosea	Healthy	Gold Stone
61	440	Tabubia Rosea	Healthy	Gold Stone
62	430	Tabubia Rosea	Healthy	Gold Stone
63	734	Tabubia Rosea	Healthy	Gold Stone
64	731	Tabubia Rosea	Healthy	Gold Stone
65	893	Tabubia Rosea	Healthy	Amber
66	896	Tabubia Rosea	Healthy	Amber
67	894	Tabubia Rosea	Healthy	Amber
68	897	Tabubia Rosea	Healthy	Amber
69	899	Tabubia Rosea	Healthy	Amber
70	783	Tabubia Rosea	Healthy	Amber
71	784	Tabubia Rosea	Healthy	Amber
72	794	Tabubia Rosea	Healthy	Amber
73	787	Tabubia Rosea	Healthy	Amber
74	898	Tabubia Rosea	Healthy	Amber
75	980	Tabubia Rosea	Healthy	CPD
76	818	Tabubia Rosea	Healthy	CPD
77	821	Tabubia Rosea	Healthy	CPD
78	474	Tabubia Rosea	Healthy	CPD
79	478	Tabubia Rosea	Healthy	CPD
80	913	Tabubia Rosea	Healthy	CPD
81	820	Tabubia Rosea	Healthy	CPD
82	819	Tabubia Rosea	Healthy	CPD
83	612	Tabubia Rosea	Healthy	Luxor
84	757	Tabubia Rosea	Healthy	Luxor
85	775	Tabubia Rosea	Healthy	Luxor
86	777	Tabubia Rosea	Healthy	Luxor
87	778	Tabubia Rosea	Healthy	Luxor
88	611	Tabubia Rosea	Healthy	Luxor

89	670	Tabubia Rosea	Healthy	Luxor
90	685	Tabubia Rosea	Healthy	Luxor
91	698	Tabubia Rosea	Healthy	Luxor
92	748	Tabubia Rosea	Healthy	Luxor
93	664	Tabubia Rosea	Healthy	Luxor
94	657	Tabubia Rosea	Healthy	Luxor
95	656	Tabubia Rosea	Healthy	Luxor
96	645	Tabubia Rosea	Healthy	Luxor
97	629	Tabubia Rosea	Healthy	Luxor
98	628	Tabubia Rosea	Healthy	Luxor
99	623	Tabubia Rosea	Healthy	Luxor
100	617	Tabubia Rosea	Healthy	Luxor
101	610	Tabubia Rosea	Healthy	Kyoto
102	600	Tabubia Rosea	Healthy	Kyoto
103	585	Tabubia Rosea	Healthy	Kyoto
104	588	Tabubia Rosea	Healthy	Kyoto
105	590	Tabubia Rosea	Healthy	Kyoto
106	594	Tabubia Rosea	Healthy	Kyoto
107	595	Tabubia Rosea	Healthy	Kyoto
108	568	Tabubia Rosea	Healthy	Kyoto
109	569	Tabubia Rosea	Healthy	Kyoto
110	572	Tabubia Rosea	Healthy	Kyoto
111	574	Tabubia Rosea	Healthy	Kyoto
112	582	Tabubia Rosea	Healthy	Kyoto
113	565	Tabubia Rosea	Healthy	Kyoto
114	563	Tabubia Rosea	Healthy	Kyoto
115	559	Tabubia Rosea	Healthy	Kyoto
116	557	Tabubia Rosea	Healthy	Kyoto
117	556	Tabubia Rosea	Healthy	Kyoto
118	544	Tabubia Rosea	Healthy	Kyoto
119	545	Tabubia Rosea	Healthy	Kyoto
120	546	Tabubia Rosea	Healthy	Kyoto
121	547	Tabubia Rosea	Healthy	Kyoto

122	548	Tabubia Rosea	Healthy	Kyoto
123	507	Tabubia Rosea	New Sprouts were not observed	Kyoto
124	505	Tabubia Rosea	Healthy	Kyoto
125	506	Tabubia Rosea	New Sprouts were not observed	Kyoto
126	508	Tabubia Rosea	Healthy	Kyoto
127	510	Tabubia Rosea	New Sprouts were not observed	Kyoto
128	518	Tabubia Rosea	New Sprouts were not observed	Kyoto
129	527	Tabubia Rosea	Healthy	Rome
130	532	Tabubia Rosea	nt at site(New Sprouts were not	Rome
131	536	Tabubia Rosea	New Sprouts were not observed	Rome
132	537	Tabubia Rosea	New Sprouts were not observed	Rome
133	444	Tabubia Rosea	Healthy	Rome
134	523	Tabubia Rosea	Healthy	Rome
135	526	Tabubia Rosea	New Sprouts were not observed	Rome
136	531	Tabubia Rosea	Healthy	Rome
137	530	Tabubia Rosea	New Sprouts were not observed	Rome
138	533	Tabubia Rosea	New Sprouts were not observed	Rome


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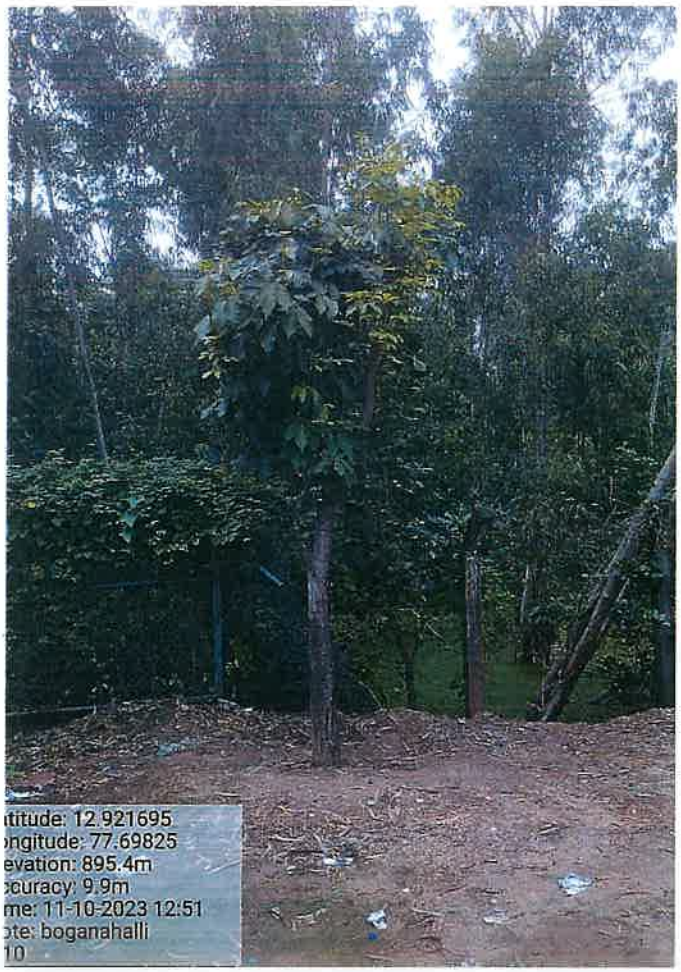
99

Boganahalli BBMP			
Si No	**Tree No**	**Species Name**	**Condition of Tree**
1	4	Tabubia Rosea	Healthy
2	5	Huvarasi	Healthy
3	6	Tabubia Rosea	Healthy
4	42	Tabubia Rosea	Healthy
5	45	Tabubia Rosea	Healthy
6	52	Tecoma	Healthy
7	54	Honge	Healthy
8	56	Tecoma	Healthy
9	57	Tabubia Rosea	Healthy
10	59	Tabubia Rosea	Healthy
11	61	Tabubia Rosea	Healthy
12	64	Tabubia Rosea	Healthy
13	65	Huvarasi	Healthy
14	66	Tabubia Rosea	Healthy
15	71	Tabubia Rosea	Healthy
16	73	Tabubia Rosea	Healthy
17	74	Tecoma	Healthy
18	75	Tecoma	Healthy
19	76	Tabubia Rosea	Healthy
20	77	Tecoma	Healthy
21	78	Tabubia Rosea	Healthy
22	80	Tabubia Rosea	Healthy
23	81	Tecoma	Healthy
24	82	Tabubia Rosea	Healthy
25	85	Tabubia Rosea	Healthy

26	89	Tabubia Rosea	Healthy
27	94	Tabubia Rosea	Healthy
28	98	Tabubia Rosea	Healthy
29	100	Tabubia Rosea	Healthy
30	104	Tabubia Rosea	Healthy
31	108	Tabubia Rosea	Healthy
32	110	Tabubia Rosea	Healthy
33	112	Tabubia Rosea	Healthy
34	116	Tabubia Rosea	Healthy
35	118	Akasha Mallige	Healthy
36	119	Tabubia Rosea	Healthy
37	121	Tabubia Rosea	Healthy
38	92	Honge	New sprouts were not observed
39	96	Tabubia Rosea	Healthy
40	23	Baage	New sprouts were not observed
41	28	Tabubia Rosea	Healthy
42	29	Tore Matti	Healthy
43	40	Tabubia Rosea	Healthy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16

Thuberhalli lake			
Si NO	**Tree No**	**Species**	**Condition of the tree**
1	125	Tabubia Rosea	Healthy
2	126	Tabubia Rosea	Healthy
3	129	Tabubia Rosea	Healthy
4	131	Tabubia Rosea	Healthy
5	133	Tabubia Rosea	Healthy
6	135	Tabubia Rosea	Healthy
7	137	Tabubia Rosea	Healthy
8	140	Tabubia Rosea	New sprouts were not obserevd
9	142	Tabubia Rosea	Healthy
10	143	Tabubia Rosea	Healthy
11	145	Tabubia Rosea	Healthy
12	148	Tabubia Rosea	Healthy
13	153	Tabubia Rosea	Healthy
14	155	Tabubia Rosea	Healthy
15	158	Tabubia Rosea	Healthy
16	164	Sihi Hunase	Healthy
17	166	Sihi Hunase	Healthy
18	170	Tabubia Rosea	Healthy
19	176	Tabubia Rosea	Healthy
20	180	Tabubia Rosea	Healthy
21	183	Tabubia Rosea	Healthy
22	187	Tabubia Rosea	Healthy
23	215	Tabubia Rosea	Healthy
24	217	Tabubia Rosea	Healthy

25	219	Honge	Healthy
26	223	Tabubia Rosea	Healthy
27	243	Tabubia Rosea	Healthy
28	245	Tabubia Rosea	Healthy
29	246	Elachi	New sprouts were not obserevd
30	247	Huvarasi	Healthy
31	248	Tabubia Rosea	Healthy
32	250	Tabubia Rosea	Healthy
33	254	Tabubia Rosea	Healthy
34	256	Tabubia Rosea	Healthy
35	258	Tabubia Rosea	Healthy
36	260	Tabubia Rosea	Healthy
37	263	Tabubia Rosea	Healthy
38	264	Huvarasi	Healthy
39	265	Tabubia Rosea	Healthy
40	267	Honge	Healthy
41	269	Tabubia Rosea	Healthy
42	271	Tabubia Rosea	Healthy
43	273	Tabubia Rosea	Healthy
44	275	Tabubia Rosea	Healthy
45	277	Tabubia Rosea	Healthy
46	281	Tabubia Rosea	Healthy
47	284	Tabubia Rosea	Healthy
48	286	Tabubia Rosea	Healthy
49	288	Tabubia Rosea	Healthy
50	291	Tabubia Rosea	Healthy

51	297	Tabubia Rosea	Healthy
52	299	Tabubia Rosea	Healthy
53	301	Tabubia Rosea	Healthy
54	305	Huvarasi	Healthy
55	308	Tabubia Rosea	Healthy
56	312	Tabubia Rosea	Healthy
57	314	Tabubia Rosea	Healthy
58	316	Honge	New sprouts were not obserevd
59	320	Tabubia Rosea	Healthy
60	321	Tabubia Rosea	New sprouts were not obserevd
61	322	Tabubia Rosea	Healthy
62	325	Tabubia Rosea	New sprouts were not obserevd
63	327	Tabubia Rosea	New sprouts were not obserevd
64	329	Tabubia Rosea	New sprouts were not obserevd
65	331	Tabubia Rosea	Healthy
66	333	Tabubia Rosea	Healthy
67	335	Tabubia Rosea	Healthy
68	337	Tabubia Rosea	New sprouts were not obserevd
69	339	Tabubia Rosea	Healthy
70	341	Tabubia Rosea	Healthy
71	343	Tabubia Rosea	Healthy
72	345	Tabubia Rosea	Healthy
73	347	Tabubia Rosea	Healthy
74	351	Tabubia Rosea	Healthy
75	353	Tabubia Rosea	Healthy
76	451	Honge	Healthy

77	455	Akash Mallige	New sprouts were not obserevd
78	457	Honge	New sprouts were not obserevd
79	459	Ala	New sprouts were not obserevd
80	462	Mahagani	New sprouts were not obserevd
81	468	Kadu Badami	New sprouts were not obserevd
82	469	Kadu Badami	New sprouts were not obserevd
83	472	Mahagani	Healthy
84	473	Kadu Jathi	Healthy
85	476	Kadu Jathi	Healthy
86	477	Bagane	New sprouts were not obserevd
87	480	Sandal	New sprouts were not obserevd
88	481	Bagane	Healthy
89	486	Spethodia	Healthy
90	487	Peltofarm	Healthy
91	489	Sandal	New sprouts were not obserevd
92	490	Kadamba	New sprouts were not obserevd
93	492	Spethodia	Healthy
94	493	Maddale	New sprouts were not obserevd
95	494	Maddale	Healthy
96	495	Mahagani	New sprouts were not obserevd
97	496	Spethodia	New sprouts were not obserevd
98	509	Mahagani	Healthy
99	515	Honge	Healthy
100	517	Honge	Healthy
101	522	Neem	New sprouts were not obserevd
102	524	Gulmohar	Healthy

103	525	Gulmohar	New sprouts were not obserevd
104	539	Mahagani	Healthy
105	540	Mahagani	Healthy
106	550	Gulmohar	New sprouts were not obserevd
107	551	Neem	New sprouts were not obserevd
108	553	Mahagani	Healthy
109	555	Honge	Healthy
110	564	Gulmohar	New sprouts were not obserevd
111	566	Honge	Healthy
112	576	Neem	New sprouts were not obserevd
113	580	Mahagani	Healthy
114	581	Neem	New sprouts were not obserevd
115	583	Mahagani	Healthy
116	584	Akash Mallige	New sprouts were not obserevd
117	591	Akash Mallige	New sprouts were not obserevd
118	592	Neem	New sprouts were not obserevd
119	593	Kadu Jathi	Healthy
120	596	Honge	Healthy
121	598	Gulmohar	Healthy
122	601	Honge	New sprouts were not obserevd
123	608	Mahagani	New sprouts were not obserevd
124	614	Akash Mallige	Healthy
125	616	Akash Mallige	New sprouts were not obserevd
126	621	Akash Mallige	Healthy
127	624	Akash Mallige	New sprouts were not obserevd
128	626	Akash Mallige	New sprouts were not obserevd

129	630	Akash Mallige	Healthy
130	631	Akash Mallige	Healthy
131	633	Akash Mallige	Healthy
132	636	Mahagani	Healthy


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39

Nallur halli lake			
Si NO	**Tree No**	**Species**	**Condition of the tree**
1	357	Huvarsi	Healthy
2	358	Tabubuia rosea	Healthy
3	359	Tabubuia rosea	New sprouts were not observed
4	361	Tabubuia rosea	Healthy
5	363	Tabubuia rosea	New sprouts were not observed
6	366	Tabubuia rosea	New sprouts were not observed
7	368	Tabubuia rosea	Healthy
8	370	Tabubuia rosea	Healthy
9	372	Tabubuia rosea	Healthy
10	374	Tabubuia rosea	Healthy
11	375	Huvarsi	Healthy
12	376	Tabubuia rosea	New sprouts were not observed
13	379	Tabubuia rosea	Healthy
14	380	Huvarsi	New sprouts were not observed
15	381	Tabubuia rosea	Healthy
16	383	Tabubuia rosea	Healthy
17	384	Huvarsi	Healthy
18	385	Tabubuia rosea	Healthy
19	387	Tabubuia rosea	Healthy
20	389	Huvarsi	Healthy
21	390	Tabubuia rosea	Healthy
22	401	Huvarsi	Healthy
23	407	Tabubuia rosea	New sprouts were not observed
24	409	Tabubuia rosea	Healthy
25	410	Huvarsi	Healthy
26	411	Tabubuia rosea	Healthy

27	413	Tabubuia rosea	Healthy
28	415	Tabubuia rosea	Healthy
29	419	Tabubuia rosea	Healthy
30	420	Tabubuia rosea	Healthy
31	421	Tabubuia rosea	Healthy
32	426	Mahagani	Healthy
33	427	Tabubuia rosea	Healthy
34	428	Tabubuia rosea	Healthy
35	431	Mahagani	New sprouts were not observed
36	433	Honge	New sprouts were not observed
37	435	Honge	Healthy
38	443	Honge	Healthy
39	639	Tecoma	Healthy
40	643	Tecoma	Healthy
41	660	Tecoma	Healthy
42	662	Tecoma	Healthy
43	663	Nerale	New sprouts were not observed
44	665	Mahagani	Healthy
45	666	Nerale	New sprouts were not observed
46	669	Honge	New sprouts were not observed
47	671	Nerale	Healthy
48	673	Tecoma	Healthy
49	688	Tecoma	Healthy
50	696	Tecoma	Healthy
51	701	Honge	Healthy
52	711	Mahagani	New sprouts were not observed
53	712	Gulmohar	Healthy
54	713	Mahagani	Healthy

55	714	Mahagani	New sprouts were not observed
56	723	Mahagani	New sprouts were not observed
57	726	Mahagani	Healthy
58	728	Mahagani	New sprouts were not observed
59	733	Akash mallige	Healthy
60	736	Mahagani	New sprouts were not observed
61	737	Mahagani	New sprouts were not observed
62	739	Mahagani	Healthy
63	741	Mahagani	Healthy
64	745	Mahagani	Healthy
65	746	Akash mallige	Healthy
66	747	Mahagani	Healthy
67	750	Mahagani	Healthy
68	751	Mahagani	Healthy
69	752	Akash mallige	Healthy
70	753	Mahagani	Healthy
71	831	Tecoma	New sprouts were not observed
72	759	Mahagani	Healthy
73	760	Akash mallige	Healthy
74	763	Akash mallige	Healthy
75	770	Mahagani	Healthy
76	773	Mahagani	Healthy
77	780	Tabubuia rosea	Healthy
78	788	Mahagani	Healthy
79	789	Gulmohar	Healthy
80	790	Akash mallige	Healthy
81	793	Kadujathi	Healthy
82	796	Kadujathi	Healthy

83	798	Honge	Healthy
84	799	Torematti	Healthy
85	800	Honge	Healthy
86	801	honge	Healthy
87	802	Atti mara	New sprouts were not observed
88	803	Kadu badami	Healthy
89	804	Arali	Healthy
90	805	Kadu badami	New sprouts were not observed
91	806	Arali	New sprouts were not observed
92	807	Atti mara	New sprouts were not observed
93	809	Kadujathi	Healthy
94	811	Kadujathi	Healthy
95	812	Kadu badami	New sprouts were not observed
96	813	Kadu badami	Healthy
97	814	Mahagani	New sprouts were not observed
98	815	Mahagani	Healthy
99	816	Huvarasi	New sprouts were not observed
100	827	Torematti	New sprouts were not observed
101	833	Mahagani	New sprouts were not observed
102	834	Tecoma	New sprouts were not observed
103	835	Honge	Healthy
104	836	Mahagani	New sprouts were not observed
105	839	Mahagani	Healthy
106	843	Tecoma	New sprouts were not observed
107	845	Mahagani	Healthy
108	847	Tecoma	Healthy
109	850	Honge	Healthy
110	852	Tecoma	Healthy

111	853	Honge	Healthy
112	855	Mahagani	Healthy
113	856	Honge	Healthy
114	858	Tecoma	Healthy
115	861	Tecoma	Healthy
116	863	Mahagani	Healthy
117	866	Mahagani	Healthy
118	867	Tecoma	Healthy
119	868	Honge	Healthy
120	869	Mahagani	Healthy
121	870	Tecoma	Healthy
122	871	Honge	Healthy
123	872	Mahagani	Healthy
124	873	Mahagani	Healthy
125	877	Mahagani	New sprouts were not observed
126	881	Mahagani	Healthy
127	882	Tecoma	Healthy
128	884	Tecoma	New sprouts were not observed
129	885	Tecoma	New sprouts were not observed
130	886	Mahagani	Healthy
131	888	tecoma	Healthy
132	889	Mahagani	Healthy
133	901	Gulmohar	Healthy
134	903	Gulmohar	Healthy
135	907	Gulmohar	Healthy
136	914	Jackarand	Healthy
137	924	Huvarsi	New sprouts were not observed
138	931	Huvarsi	New sprouts were not observed

139	932	Huvarasi	Healthy
140	934	Gulmohar	Healthy
141	938	Huvarsi	Healthy
142	939	Honge	New sprouts were not observed
143	942	Gulmohar	New sprouts were not observed
144	943	Huvarsi	New sprouts were not observed
145	947	Gulmohar	Healthy
146	949	Honge	Healthy
147	951	Huvarsi	Healthy
148	956	Gulmohar	Healthy
149	959	Huvarsi	Healthy
150	960	Gulmiohar	Healthy
151	976	Akash mallige	Healthy
152	977	Honge	New sprouts were not observed
153	985	Ficus	New sprouts were not observed
154	992	Kadujathi	Healthy
155	999	Hongr	Healthy
156	1012	Atti mara	New sprouts were not observed
157	1020	Sihi Hunase	Healthy
158	1026	Rain Tree	New sprots were not observed


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Quarterly report on implementation of Official Memorandum dated 10.06.2022 (Central Silk Board to Kodibeesenahalli 2A Package 1) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2A Package 1 (ORR) of Bangalore Metro Rail Project Construction
Location of the project	: Between Central Silk Board to Kodibeesenahalli
OM issued date by the Tree Officer, BBMP	: **10.06.2022**
Court Permission Date	: **12.07.2022**

Details of the OM dtd. 26.11.2021:

Total number of trees removed as per OM	: 14 No. Trees
Total Number of Trees Recommended for the Retention on site	: Nil
Total Number of Trees Recommended for the Translocation on site	: Nil
Number of Trees Recommended for the Felling on site	: 14 No. Trees

Details of compensatory Plantation:

Agency entrusted for the raising and maintenance of the plantation by BMRCL	: EcoGene Concept
Location of Compensatory plantation and No. of Saplings	: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 140 No. Saplings
Procedure of agency selection	: Work don certificate and through open quotations method
Compensatory plantation to be raised as per OM (Ratio 1:10)	: 140 No. Saplings
Number of Saplings planted	: 140 No. Saplings
Year and Month of plantation Completed	: Feb 2022
Present servility rate of the plantation	: 140 No. Saplings

Supervision of translocation by BMRCL	: Environmental officer (SEMU), AM/AE- SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by Forest Dept.	: BBMP Tree officer or officer deputed by tree Officer BBMP

A. COMPENSATORY PLANTATION:

As per the directions of Hon'ble High court of Karnataka and the official memorandum issued by the tree officer BBMP, BMRCL had taken of Compensatory plantation in the ratio of 1:10 i.e., for removal of each tree standing in the project area by means of translocation and felling, BMRCL has to plant 10 healthy saplings. Hence BMRCL had raised the plantation of 140 No. Saplings at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 140 No. Saplings.

BMRCL has to rise the compensatory plantation of 65,930 No. saplings as per the 21 official memorandums issued by the Tree Officer from March 2021 to January 2023. BMRCL had completed the raising 50,920 saplings.

A2. Maintenance of the plantation

A2.1 Time period: The plantation has maintained for a period of three years form the date of completion of rising of plantation.

A2.2 Causality replacement:

From July to September 2023, 0% causality was observed in the 140 saplings afforestation pertaining to the OM dtd. 10.06.2022. But still any plant attains causality BMRCL is replanting such seedlings.

A2.3 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 for the plantations at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru – 140 No. Saplings.

Soil works: Hoeing and other soil works has been completed in July 2023.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from August 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Application of Fertiliser to plants:

50g of DAP and approximately 2 kg of FYM has been given to each tree sapling at the root zone from Feb 2023, still is in progress.

Survival rate:

In the quarter July to September 2023 100 % survival rate has been observed, the tree Sapling which have attained to the causality due to adverse weather conditions like heavy rains, water logging etc., will be replaced to maintain 100 % Survival rate of the plantation at Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.

Numbering and Geo tagging:

Coding of Each tree sapling Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru, plantation has been started. Geo tagging of each sapling has been completed on March 2022.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 140 saplings at Hi-Tec Defence and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru.	1. Activities like weeding, Soil works, nutrient supplements have been carried out in the plantation.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Compensatory plantation	140	140	Nil	Work is completed

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

H S Ranganathaswamy

Environment Officer,
SEMU-BMRCL

Compensatroy Plantation Details			
OM Dated: 10.06.2022 High Court Permission Dated: 12.07.2022 Location: KIADB			
Sl No	**Species Name**	**No of Saplings**	**Remarks**
1	Kadamba	20	Good
2	Mahogany	25	Good
3	Champaka Mara	20	Good
4	Ala	25	Good
5	Arali Mara	25	Good
6	Nerale Mara	25	Good
Total		**140**	Good

ASSISTANT ENVIRONMENT OFFICER
Bengaluru Metro Rail Corporation Ltd.
Shanthinagar, Bengaluru


STRIAL AREAS DEVELOPMENT BOARD
LAYOUT PLAN OF
DEFENCE & AEROSPACE PARK
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Powered by Triple Camera
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Quarterly report on implementation of Official Memorandum dated 09.12.2021 (Central Silk Board to Kodibeesenahalli 2A) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2A Package 1 & 2 (ORR) of Bangalore Metro Rail Project Construction
Location of the project	: Between Central Silk Board to Kodibeesenahalli
OM issued date by the Tree Officer, Urban	: **09.12.2021**
Court Permission Date	: **09.02.2022**

Details of the OM dtd. 09.12.2021:

Total number of trees removed as per OM	: 229 No. Trees
Total Number of Trees Recommended for the Retention on site	: 27 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 84 No. Trees
Number of Trees Recommended for the Felling on site	: 145 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Blue Grass Landscapers Under AFCONS Pvt Ltd and SNC Pvt. Ltd
Location of Receptor site	: 1. Bhogan halli lake = 27/28 2. CMP Centre training, Iblur = 56/56
Total number of trees to be translocated as per OM dtd.	: **84 No. Trees**
Translocation completed Month and Year	: **July 2022**
Total number of tree translocation completed	: **83 No. Trees**
Total number of tree translocation balance	: **1 No. Trees**
Total number of trees observed with survival Symptoms	: **32 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **51 No. Trees**

Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil) 2A Package 1, BMRCL and Asst. Engineer (Civil), AFCONS PVT. LTD.
Officers in-charge for tree translocation	: ED-Civil, GM (SEMU), Chief Engineer (2A Package 1-ORR), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU), AE (Civil) 2A Package 1 and Asst. Engineer (Civil), AFCONS.
Supervision by BBMP	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

Details of compensatory Plantation:

BMRCL has issued notification inviting tenders for raising and maintenance of saplings for 3 years on 24.02.2023. Notice to proceed issued to competent agency on 30.05.2023. Plantation work along with Geo-tagging is in progress.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Blue Grass Landscapers Under AFCONS Pvt Ltd and SNC Pvt. Ltd for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Blue Grass Landscapers Under AFCONS Pvt Ltd and SNC Pvt. Ltd.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering

and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From April 2022 BMRCL has translocated 83 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 32 translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 51 no translocated trees have not encountered with any survival symptoms hence they were kept in the observation.

A3. Maintenance of Transplanted trees:

A3.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in July 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from July 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Work done in the previous quarter and present quarter:

Work done in the previous quarter	Present Quarter
1. Maintenance of 34 transplanted trees is started and 24 trees transplanted.	1. Maintenance of 83 transplanted trees is in progress. 2. Compensatory afforestation NTP has been issued on 30.05.2023 and plantation raising work is in progress.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	84	83	1	Transplantation of 1 tree is in progress
2.	Compensatory plantation	2290	0	2290	Tendering is in progress

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

H S Ranganathaswamy

Environment Officer,
SEMU-BMRCL

ORR Ph- 2A from Central Silk Board to K R Puram- Translocation				
Sl No.	**Tree No.**	**Species Name**	**Location**	**Condition of the trees**
1	2	Ashoka	ASC North	New sprouts were not observed
2	3	Shihihunase	ASC North	New sprouts were not observed
3	12(A)	Rudrakshi	Boganahalli	Recently Translocated
	12(B)			
	12(C)			
	12(D)			
4	14(A)	Rudrakshi	ASC North	Healthy
	14(B)	Rudrakshi		
5	18	Mahagony	ASC North	New sprouts were not observed
6	20(A)	Honge	ASC North	Healthy
	20(B)	Honge		
	20(C)	Honge		
	20(D)	Honge		
7	23	Atti	ASC North	New sprouts were not observed
8	26	Ranjal	ASC North	New sprouts were not observed
9	27	Honge	ASC North	New sprouts were not observed
10	28(A)	Ranjal	ASC North	New sprouts were not observed
	28(B)	Ranjal		
11	31	Honge	ASC North	Healthy
12	32	Ranjal	ASC North	New sprouts were not observed
13	33(A)	Honge	ASC North	New sprouts were not observed
	33(B)	Honge		
14	35	Rain Tree	ASC North	Healthy
15	37	Honge	ASC North	New sprouts were not observed
16	38	Dalichandra	ASC North	Healthy
17	40	Rain Tree	ASC North	Healthy
18	41	Spathodea	ASC North	Healthy
19	43	Rain Tree	ASC North	New sprouts were not observed
20	45 (A)	Atti	ASC North	Healthy
	45(B)	Atti		
	45(C)	Atti		
21	47	Spathodea		Recently Translocated
22	49 (A)	Kanagale	ASC North	healthy
	49 (B)			

	49 (C)		

23	50 (A)	Kanagale	ASC North	New sprouts were not observed
	50 (B)			
24	51 (A)	Kanagale	ASC North	Healthy
	51 (B)			
	51 (C)			
	51 (D)			
	51 (E)			
25	53 (A)	Akasha Mallige	Boganahalli	Recently Translocated
	53 (B)			
	53 (C)			
26	60	Tabubia Rosia	ASC North	Healthy
27	62	Honge	ASC North	New sprouts were not observed
28	67	Tabubia Rosia	ASC North	Healthy
29	73	Rain Tree	ASC North	Healthy
30	74	Rain Tree	ASC North	Healthy
31	82	Honge	Boganahalli	Healthy
32	83	Honge	Boganahalli	New sprouts were not observed
33	86	Mahagony	Boganahalli	New sprouts were not observed
34	89	Kadubadami	Boganahalli	New sprouts were not observed
35	93	Kadubadami	Boganahalli	Healthy
36	94	Mahagony	Boganahalli	New sprouts were not observed
37	96(A)	Bilvara	Boganahalli	Yet to Translocate
	96(B)			
38	110	Begonia	Bagmane Tech Park	Healthy
39	111	Canocarpus	Boganahalli	New sprouts were not observed
40	112	Canocarpus	Boganahalli	New sprouts were not observed
41	113	Begonia	Bagmane Tech Park	Healthy
42	116	Akasha Mallige	Boganahalli	New sprouts were not observed
43	117(A)	Akasha Mallige	Boganahalli	New sprouts were not observed
	117(B)			
44	118	Akasha Mallige	Boganahalli	New sprouts were not observed
45	119	Akasha Mallige	Boganahalli	New sprouts were not observed
46	120	Akasha Mallige	Boganahalli	Healthy
47	121(A)	Akasha Mallige	Boganahalli	New sprouts were not observed
	121(B)			
48	122	Akasha Mallige	Boganahalli	Healthy

49	123	Akasha Mallige	Boganahalli	New sprouts were not observed
50	124	Akasha Mallige	Boganahalli	New sprouts were not observed

51	125	Akasha Mallige	Boganahalli	New sprouts were not observed
52	126	Akasha Mallige	Boganahalli	Healthy
53	134(A)	Atti	ASC North	New sprouts were not observed
	134(B)	Atti		
54	136	Atti	ASC North	New sprouts were not observed
55	143	Arali	ASC North	Healthy
56	144(A)	Honge	ASC North	New sprouts were not observed
	144(B)	Honge		
57	148	Spathodea	ASC North	Healthy
58	159	Honge	ASC North	New sprouts were not observed
59	160	Kambada mara	ASC North	New sprouts were not observed
60	161	Kambada mara	ASC North	New sprouts were not observed
61	162	Kambada mara	ASC North	New sprouts were not observed
62	163	Kambada mara	ASC North	New sprouts were not observed
63	164	Kambada mara	ASC North	New sprouts were not observed
64	165	Kambada mara	ASC North	New sprouts were not observed
65	166	Kambada mara	ASC North	New sprouts were not observed
66	170	Kadu badami	ASC North	New sprouts were not observed
67	173	Kambada mara	ASC North	New sprouts were not observed
68	174	Kambada mara	ASC North	New sprouts were not observed
69	175	Kambada mara	ASC North	New sprouts were not observed
70	176	Kambada mara	ASC North	New sprouts were not observed
71	177	Hunase	ASC North	New sprouts were not observed
72	202	Atti	ASC North	Healthy
73	206	Nerale	ASC North	Healthy
74	207	Halasu	ASC North	New sprouts were not observed
75	208(A)	Peltophorum	ASC North	Healthy
	208(B)	Peltophorum		
76	209	Peltophorum	ASC North	New sprouts were not observed
77	220	Hebbevu	ASC North	New sprouts were not observed
78	221	Mavu	ASC North	New sprouts were not observed
79	230(A)	Tabebuia	Boganahalli	Healthy
	230(B)	Tabebuia		
80	231	Tabebuia	Boganahalli	Healthy
81	232(A)	Atti	Boganahalli	New sprouts were not observed
	232(B)			

	232(C)			
82	237	Atti	Boganahalli	New sprouts were not observed
83	252	Shivane	Boganahalli	New sprouts were not observed
84	253	Honge	Boganahalli	Healthy


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Quarterly Report July to September 2023 — 2nd Quarter

Quarterly report on implementation of Official Memorandum dated 19.09.2022 (Central Silk Board to Kodibeesenahalli Metro Station (up to pier no.335)) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2A (ORR) of Bangalore Metro Rail Project Construction
Location of the project	: Between Central Silk Board to Kodibeesenahalli Metro Station
OM issued date by the Tree Officer, BBMP	: **19.09.2022**
Court Permission Date	: **07.12.2022**

Details of the OM dtd. 26.11.2021:

Total number of trees removed as per OM	: 126 No. Trees
Total Number of Trees Recommended for the Retention on site	: 03 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 12 No. Trees
Number of Trees Recommended for the Felling on site	: 114 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: Blue Grass Landscaping LTD Under AFCONS Pvt. Ltd.
Location of Receptor site	: CMP Center training area HSR 1st Sector, 27th Cross Iblur, Bengaluru – **12 No. Tree.**
Total number of trees to be translocated as per OM dtd.	: **12 No. Trees**
Translocation completed Month and Year	: **March 2023**
Total number of tree translocation completed	: **12 No. Trees**
Total number of tree translocation balance	: Nil
Total number of trees observed with survival Symptoms	: **11 No. Trees**

Total number of trees not encounter with any type of survival symptoms	: **01 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation by BMRCL	:Environmental officer (SEMU), AM/AE-SENU Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU)
Supervision by BBMP	: BBMP Tree officer or officer deputed by tree officer BBMP

Details of compensatory Plantation:

BMRCL has issued notification inviting tenders for raising and maintenance of saplings for 3 years on 24.02.2023. Notice to proceed issued to competent agency on 30.05.2023. Plantation work along with Geo-tagging is in progress.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged Blue Grass Landscapers Under AFCONS Pvt Ltd and SNC Pvt. Ltd for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with Blue Grass Landscapers Under AFCONS Pvt Ltd and SNC Pvt. Ltd.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to

the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From Jan 2023 BMRCL has translocated 12 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 11 translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 01 no translocated trees have not encountered with any survival symptoms hence they were kept in the observation.

A3. Maintenance of Transplanted trees:

A3.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A3.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in July 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from July 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	12	12	0	Maintenance of 12 trees is in progress
2.	Compensatory plantation	1260	0	1260	Plantation work is in progress.

Quarterly Report July to September 2023 **2nd Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

H S Ranganathaswamy

Environment Officer,
SEMU-BMRCL

ORR-PHASE - 2A (PACKAGE-1) FROM CENTRAL SILK BOARD TO KODIBEESANAHALLI STATION UP TO PIER No. - 335 (12)			
Sl No	**Tree No.**	**Species Name**	**Condition**
1	7	Tabubia	Healthy
2	89	Holedasawla	Healthy
3	90	Mahagani	Healthy
4	92	Dalichandra	New sprots were not obserevd
5	94	Holedasawla	Healthy
6	99	Dalichandra	Healthy
7	101	Dalichandra	Healthy
8	102	Dalichandra	Healthy
9	UN	Dalichandra	Healthy
10	103	Dalichandra	Healthy
11	124	Tabubia	Healthy
12	125	Honge	Healthy


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Quarterly report on implementation of Official Memorandum dated 10.03.2022 (Kasturinagar to Kempapura Package 1) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2B Package 1 of Bangalore Metro Rail Project Construction
Location of the project	: Between Kasturinagar to Kempapura
OM issued date by the Tree Officer, BBMP	: **10.03.2022**
Court Permission Date	: **20.04.2022**

Details of the OM dtd. 10.03.2022:

Total number of trees removed as per OM	: 1494 No. Trees
Total Number of Trees Recommended for the Retention on site	: 26 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 160 No. Trees
Number of Trees Recommended for the Felling on site	: 1334 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: NCC Pvt Ltd
Location of Receptor site	: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru = 21/160
Total number of trees to be translocated as per OM dtd.	: **160 No. Trees**
Translocation completed Month and Year	: **Nov 2022**
Total number of tree translocation completed	: **133 No. Trees**
Total number of tree translocation balance	: **27 No. Trees**
Total number of trees observed with survival Symptoms	: **90 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **43 No. Trees**
Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999

Methodology adopted for the tree translocation: Root Ball Method as per the UAS, GKVK, guidelines 2020

Supervision of translocation by BMRCL :Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil).

Officers in-charge for tree translocation By BMRCL : ED-Civil, GM (SEMU), Chief Engineer Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).

Supervision by Forest Dept. : BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

Details of compensatory Plantation:

BMRCL has issued notification inviting tenders for raising and maintenance of saplings for 3 years on 24.02.2023. Notice to proceed issued to competent agency on 30.05.2023. Plantation work along with Geo-tagging is in progress.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged NCC Pvt. Ltd. for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with NCC Pvt. Ltd. between agency and BMRCL.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will

not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From April 2022 BMRCL has translocated 133 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 90 translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 43 no. translocated trees have not encountered with any survival symptoms hence they were kept in the observation.

A4. Maintenance of Transplanted trees:

A4.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in July 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from July 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	160	133	27	Transplantation of 50 trees is in progress
2.	Compensatory plantation	14940	0	14940	Plantation work is in progress.

Quarterly Report July to September 2023 **5th Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

H S Ranganathaswamy

Environment Officer,
SEMU-BMRCL

Phase-2B Package-1			
Sl. No.	**Tree No.**	**Species Name**	**Conditions of Tree**
1	14	Mahogany	Healthy
2	15	Hole Dasavala	Healthy
3	51	Tubebuia rosea	Healthy
4	57	Tubebuia rosea	Healthy
5	58	Tubebuia rosea	Healthy
6	66	Tubebuia rosea	Healthy
7	79	Alada mara	Recently translocated
8	81	Peepal tree	Recently translocated
9	90	Tubebuia rosea	Healthy
10	91	Tubebuia rosea	Recently translocated
11	114	Honge	Healthy
12	117	Mahogany	Healthy
13	119	Tubebuia rosea	New sprouts were not observed
14	120	Tubebuia rosea	Healthy
15	139	Tubebuia rosea	Recently translocated
16	190	Mahogany	Yet to Translocate
17	203	Mahogany	Yet to Translocate
18	213	Subabul	Healthy
19	214	Sime Thangdi	New sprouts were not observed
20	215	Subabul	Recently translocated
21	369	Rain tree	Recently translocated
22	437	Aralimara	Recently translocated
23	471	Gulmohar	Recently translocated
24	531	Mahogany	Yet to Translocate
25	533	Honge	Healthy
26	534	Honge	Recently translocated
27	550	Nerale	New sprouts were not observed
28	553	Tubebuia rosea	New sprouts were not observed
29	554	Nerale	New sprouts were not observed
30	555	Aralimara	Healthy
31	557	Attimara	Yet to Translocate

32	558	Attimara	Yet to Translocate
33	559	Ashok pendla/ Mimusops elengi	Yet to Translocate
34	561	Nerale	Yet to Translocate
35	602	Hole Dasavala	Recently translocated
36	613	Hunase	Yet to Translocate
37	615	Aralimara	Healthy
38	619	Hoovarasi	Healthy
39	620	Budha coconut	New sprouts were not observed
40	621	Mahogany	Healthy
41	626	Mahogany	Healthy
42	627	Mahogany	New sprouts were not observed
43	642	Mahogany	New sprouts were not observed
44	643	Tubebuia Avellanedae	Healthy
45	644	Mahogany	New sprouts were not observed
46	647	Mahogany	Healthy
47	648	Tubebuia Avellanedae	New sprouts were not observed
48	654	Mahogany	Healthy
49	659	Honge	New sprouts were not observed
50	664	Dalichandra	New sprouts were not observed
51	670	Nerale	Yet to Translocate
52	677	Dalichandra	New sprouts were not observed
53	678	Dalichandra	New sprouts were not observed
54	679	Dalichandra	Healthy
55	680	Dalichandra	New sprouts were not observed
56	681	Peltophorum	Healthy
57	689	Dalichandra	New sprouts were not observed
58	691	Dalichandra	New sprouts were not observed
59	694	Dalichandra	New sprouts were not observed
60	695	Dalichandra	New sprouts were not observed
61	696	Dalichandra	Healthy
62	697	Honge	Healthy
63	700	Simarouba	Healthy
64	701	Dalichandra	New sprouts were not observed

65	704	Dalichandra	New sprouts were not observed
66	710	Tubebuia rosea	Healthy
67	711	Hoovarasi	New sprouts were not observed
68	712	Nerale	Yet to Translocate
69	717	Nerale	Yet to Translocate
70	721	Hole Dasavala	Yet to Translocate
71	727	Tubebuia rosea	Healthy
72	734	Akash mallige	Healthy
73	745	Mahogany	New sprouts were not observed
74	772	Tubebuia rosea	New sprouts were not observed
75	773	Tubebuia rosea	New sprouts were not observed
76	774	Tubebuia rosea	New sprouts were not observed
77	776	Tubebuia rosea	New sprouts were not observed
78	777	Hoovarasi	Yet to Translocate
79	786	Nerale	Yet to Translocate
80	788	Mahogany	new sprouts were not observed
81	792	Honge	Yet to Translocate
82	795	Mahogany	New sprouts were not observed
83	798	Mahogany	New sprouts were not observed
84	818	Honge	Yet to Translocate
85	834	Honge	Healthy
86	844	Honge	Healthy
87	852	Honge	Healthy
88	861	Honge	Healthy
89	884	Honge	Healthy
90	886	Honge	Healthy
91	891	Honge	Healthy
92	892	Honge	Healthy
93	893	Honge	Healthy
94	896	Bage mara	Healthy
95	897	Tubebuia rosea	Healthy
96	898	Mahogany	Healthy
97	899	Tubebuia rosea	Healthy

98	901	Tubebuia rosea	Healthy
99	902	Honge	Healthy
100	903	Honge	Healthy
101	905	Mahogany	New sprouts were not observed
102	908	Mahogany	New sprouts were not observed
103	912	Mahogany	Healthy
104	913	Mahogany	Healthy
105	915	Mahogany	Healthy
106	916	Mahogany	Healthy
107	917	Mahogany	Healthy
108	918	Mahogany	Healthy
109	920	Mahogany	Yet to Translocate
110	921	Mahogany	Yet to Translocate
111	927	Kadamba	Healthy
112	928	Kadamba	New sprouts were not observed
113	929	Kadamba	New sprouts were not observed
114	930	Kadamba	New sprouts were not observed
115	931	Kadamba	Healthy
116	932	Kadamba	New sprouts were not observed
117	934	Kadamba	Healthy
118	936	Kadamba	Healthy
119	938	Kadamba	New sprouts were not observed
120	959	Tubebuia rosea	Recently translocated
121	960	Akash mallige	Yet to Translocate
122	966	Mahogany	Yet to Translocate
123	971	Mahogany	Yet to Translocate
124	976	Mahogany	Yet to Translocate
125	993	Mahogany	Yet to Translocate
126	1001	Mahogany	Yet to Translocate
127	1006	Hole Dasavala	Yet to Translocate
128	1014	Bage mara	Recently translocated
129	1021	Honge	New sprouts were not observed
130	1028	Honge	Recently translocated

131	1040	Honge	Recently translocated
132	1044	Honge	Recently translocated
133	1047	Honge	Recently translocated
134	1054	Cordia dichotoma	Yet to Translocate
135	1075	Honge	New sprouts were not observed
136	1158	Tubebuia rosea	Healthy
137	1160	Tubebuia rosea	Healthy
138	1161	Mahogany	Healthy
139	1162	Mahogany	Healthy
140	1168	Mahogany	Healthy
141	1169	Mahogany	Healthy
142	1182	Tubebuia rosea	Healthy
143	1183	Hoovarasi	Healthy
144	1186	Tubebuia rosea	Healthy
145	1188	Tubebuia rosea	Healthy
146	1189	Hoovarasi	Healthy
147	1194	Hoovarasi	Healthy
148	1234	Mahogany	New sprouts were not observed
149	1239	Hoovarasi	Healthy
150	1250	Mahogany	Healthy
151	1257	Tubebuia rosea	Healthy
152	1267	Mahogany	Healthy
153	1292	Mahogany	Healthy
154	1293	Mahogany	Healthy
155	1298	Mahogany	New sprouts were not observed
156	1393	Mahogany	New sprouts were not observed
157	1402	Tubebuia rosea	Healthy
158	1406	Mahogany	Healthy
159	1462	Toremathi	Yet to Translocate
160	1497	Mahogany	New sprouts were not observed


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19

Quarterly Report July to September 2023 4th Quarter

Quarterly report on implementation of Official Memorandum dated 26.07.2022 (Kempapura to Baglur cross Package 2 & 3) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2B Package 2 of Bangalore Metro Rail Project Construction
Location of the project	: Kempapura to Baglur cross
OM issued date by the Tree Officer, BBMP	: **26.07.2022**
Court Permission Date	: **13.09.2022**

Details of the OM dtd. 26.07.2022:

Total number of trees removed as per OM	: 411 No. Trees
Total Number of Trees Recommended for the Retention on site	: 15 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 29 No. Trees
Number of Trees Recommended for the Felling on site	: 382 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: NCC Pvt Ltd
Location of Receptor site	: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru =
Total number of trees to be translocated as per OM dtd.	: **29 No. Trees**
Translocation completed Month and Year	: **Feb 2023**
Total number of tree translocation completed	: **24 No. Trees**
Total number of tree translocation balance	: **05 No. Trees**
Total number of trees observed with survival Symptoms	: **18 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: 06

Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation by BMRCL	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil).
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Chief Engineer Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by Forest Dept.	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

Details of compensatory Plantation:

BMRCL has issued notification inviting tenders for raising and maintenance of saplings for 3 years on 24.02.2023. Notice to proceed issued to competent agency on 30.05.2023. Plantation work along with Geo-tagging is in progress.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged NCC Pvt. Ltd. for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with NCC Pvt. Ltd. between agency and BMRCL.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand

the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From December 2022 BMRCL has translocated 24 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 18 translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 06 no. translocated trees have not encountered with any survival symptoms hence they were kept in the observation.

A4. Maintenance of Transplanted trees:

A4.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in July 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from July 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	29	24	05	Transplantation of 05 trees is in progress
2.	Compensatory plantation	4110	0	4110	Plantation work is in progress.

Quarterly Report July to September 2023 **4th Quarter**

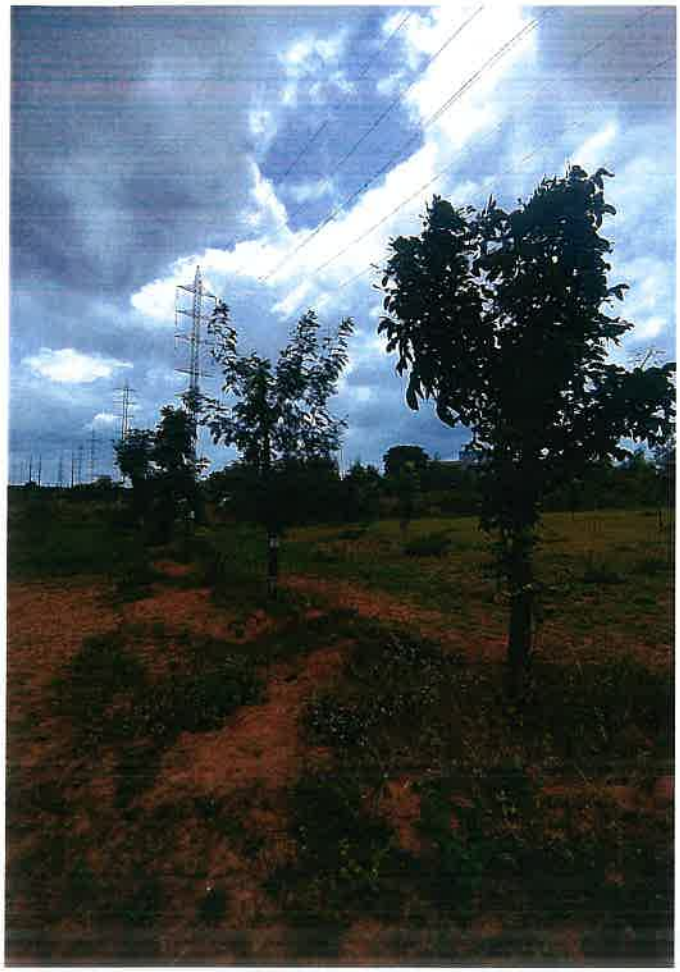
It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

H S Ranganathaswamy

Environment Officer,
SEMU-BMRCL

ORR-PHASE - 2A (PACKAGE-1) FROM CENTRAL SILK BOARD TO KODIBEESANAHALLI STATION UP TO PIER No. - 335 (12)			
Sl No	**Tree No.**	**Species Name**	**Condition**
1	13	Mahagani	Healthy
2	18	honge	Healthy
3	50	Tabubia rosea	New sprouts were not observed
4	85	Tabubia rosea	Healthy
5	138	Mahagani	Healthy
6	146	Mahagani	Healthy
7	167	Mahagani	Healthy
8	220	Mahagani	New sprouts were not observed
9	224	Mahagani	Healthy
10	226	Mahagani	Yet to Translocate
11	227	Buguri Mara	Healthy
12	232	Neem	Yet to Translocate
13	233	Akasha Mallige	Yet to Translocate
14	235	Mahagani	Healthy
15	245	Tabubia rosea	Healthy
16	257	Mahagani	New sprouts were not observed
17	260	Buguri Mara	new sprouts were not observed
18	277	Mahagani	Healthy
19	286	Mahagani	Healthy
20	358	honge	Yet to Translocate
21	368	Rain Tree	Healthy

22	369	Mahagani	New sprouts were not observed
23	374	Gulmohar	Recently translocatd
24	378	spethodia	Recently translocatd
25	392	Honge	Recently translocatd
26	393	Mahagani	Yet to Translocate
27	394	Neem	New sprouts were not observed
28	395	Mahagani	Healthy
29	397	Mahagani	Healthy
	398	Mahagani	Yet to Translocate

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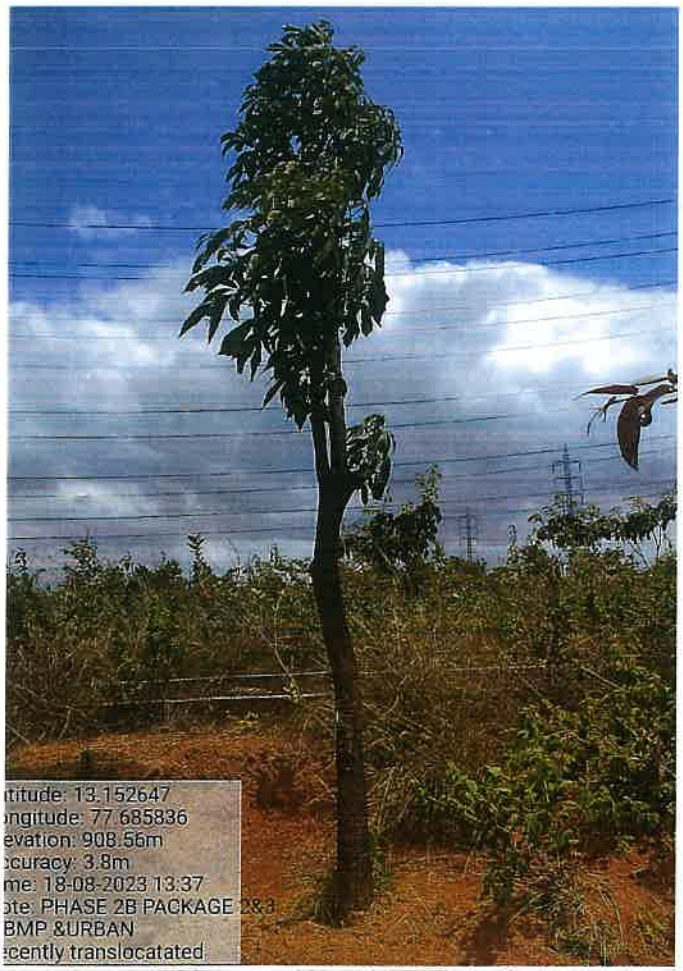
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82

Quarterly report on implementation of Official Memorandum dated 26.07.2022 (Kempapura to Shettigere Package 2 & 3) by Bengaluru Metro Rail Corporation Limited

Name of the project	: 2B Package 2 and 3 of Bangalore Metro Rail Project Construction
Location of the project	: **Kempapura to Shettigere**
OM issued date by the Tree Officer, BBMP	: **29.08.2022**
Court Permission Date	: **07.12.2022**

Details of the OM dtd. 26.07.2022:

Total number of trees removed as per OM	: 487 No. Trees
Total Number of Trees Recommended for the Retention on site	: 4 No. Trees
Total Number of Trees Recommended for the Translocation on site	: 21 No. Trees
Number of Trees Recommended for the Felling on site	: 466 No. Trees

Details of Translocation:

Agency entrusted for the tree translocation	: NCC Pvt Ltd
Location of Receptor site	: Hi-Tec Defance and Aero space park Phase-1 (KIADB), Huvinayakanahalli, Bengaluru = 21/160
Total number of trees to be translocated as per OM dtd.	: **21 No. Trees**
Translocation completed Month and Year	: **March 2023**
Total number of tree translocation completed	: **17 No. Trees**
Total number of tree translocation balance	: **04 No. Trees**
Total number of trees observed with survival Symptoms	: **10 No. Trees**
Total number of trees not encounter with any type of survival symptoms	: **07 No. Trees**

Procedure of agency selection	: Competitive bidding as per the KTTP ACT 1999
Methodology adopted for the tree translocation	: Root Ball Method as per the UAS, GKVK, guidelines 2020
Supervision of translocation by BMRCL	:Environmental officer (SEMU), Asst. Environmental Engineer, SEMU, Section Environmental Engineer SEMU, Asst. Engineer (Civil).
Officers in-charge for tree translocation By BMRCL	: ED-Civil, GM (SEMU), Chief Engineer Environmental officer, AM/AE (SEMU), Asst. Environmental Engineer (SEMU) Section Environmental Engineer (SEMU).
Supervision by Forest Dept.	: BBMP Tree Officer or Officer Deputed by Tree Officer BBMP

Details of compensatory Plantation:

BMRCL has issued notification inviting tenders for raising and maintenance of saplings for 3 years on 24.02.2023. Notice to proceed issued to competent agency on 30.05.2023. Plantation work along with Geo-tagging is in progress.

A. TREE TRANSLOCATION

A1. Competent Agency Selected for Translocation:

Bangalore Metro Rail Corporation Limited Engaged NCC Pvt. Ltd. for tree Translocation and maintenance for a period of 3 years. BMRCL has entered an agreement with NCC Pvt. Ltd. between agency and BMRCL.

A2. Survival Rate of transplanted trees as per the official memorandum:

The transplanted tree needs to be observed frequently for its survival, growth, pests, diseases and other physiological symptoms/expressions. It is possible to witness temporary wilting of leaves for few days, leaf fall also can happen and the tree may even decide to go in for 'Transitory Dormancy' phase, to avoid moisture loss and desiccation. But can show revival symptoms within six months like, new sprouts, turgid leaves, arrest of leaf fall, etc., It is also possible that sometimes, there will be a 'Distress' reaction in the form of premature flowering and fruiting. Also, some trees will exhibit new sprouts within few weeks which may be due to

the presence of adequate stored food reserves. Under such circumstances, the new sprouts will not survive for a long and may wither soon. If the tree has not acclimatized, then there will not be any revival symptoms. It should be kept in mind that the transplanted tree has to withstand the tests of at least one years (covering all the three seasons) to declare it as 'surviving or successful'. Hence, any premature conclusions and certifications are being restrained.

From December 2022 BMRCL has translocated 14 trees which are given way for the metro construction. Morphological characteristics showing the survival symptoms likes leaf buds, leaf initiation, new shoots, tree branchlets, flowers and new leaves were observed in the 10 translocated trees are responding to the translocation shock and trying to adopt for the new location and surrounding microclimate. Remaining 07 no. translocated trees have not encountered with any survival symptoms hence they were kept in the observation.

A4. Maintenance of Transplanted trees:

A4.1 Time period: The plantation has maintained for a period of three years form the date of completion of transplantation.

A4.2 Plantation activities under taken in the present quarter:

Weeding: Removal of the weeds has been carried out from July to September 2023 at receptor sites.

Soil works: Hoeing and other soil works has been started in July 2023, still work is in progress.

Saucer Bharav: Preparation of Saucer Bharav for the saplings has been started from July 2023, still is in progress.

Watering: Frequent watering has carried out in quarter July to September 2023 in the plantations.

C. Conclusion

Sl. No.	Conditions as per OM	Recommendation as per the OM	Completed till September 2023	Balance	Remarks
1.	Tree translocation	21	17	04	Transplantation of 04 trees is in progress
2.	Compensatory plantation	4110	0	4110	Plantation work is in progress.

Quarterly Report July to September 2023 **3rd Quarter**

It is submitted that as per the directions of the Hon'ble High Court of Karnataka vide Daily order and Official Memorandum (OM) issued by the tree officer/DCF (BBMP and Urban Division), Bengaluru. The Quarterly Progress report of Compensatory afforestation and translocation for the Quarter July, August & September 2023 is here by submitted. It is requested that Tree Officer, Deputy Conservator of Forest, BBMP Bangalore to kindly consider the same for further needful action by keeping the view the directions of the Hon'ble High Court of Karnataka in WP No 17841.

H S Ranganathaswamy

Environment Officer,
SEMU-BMRCL

Phase 2B Package 2& 3				
Sl.No	**Tree No**	**Species**	**Location**	**Condition of the trees**
1	44	Peltophorum	Hi-Tech Defence and Aero space park Phase-1 (KIADB)	**yet to translocate**
2	66	Tabeuia argentea		Healthy
3	69	Tabeuia argentea		New Sprouts were not observed
4	77	Terminalia mantaly		New Sprouts were not observed
5	90	Syzygium cumini		Recently translocated
6	113	Mangifera indica		yet to translocate
7	114	Mangifera indica		yet to translocate
8	286	Tectona grandis		New Sprouts were not observed
9	291	Tectona grandis		Healthy
10	309	Tectona grandis		New Sprouts were not observed
11	310	Simarouba glauca		New Sprouts were not observed
12	376	Azadirachta indica		New Sprouts were not observed
13	382	Albizia lebbeck		Healthy
14	426	Azadirachta indica		New Sprouts were not observed
15	430	Tabeuia rosea		Healthy
16	436	Syzygium cumini		Healthy
17	439	Teminalia catappa		Healthy
18	441	Teminalia catappa		yet to translocate
19	446	Teminalia catappa		Recently translocated
20	447	Teminalia catappa		Healthy
21	448	Teminalia catappa		Recently translocated


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